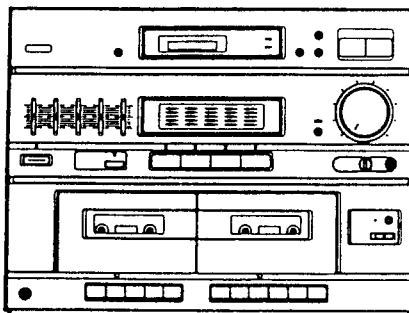


Service Manual

PIONEER®

The Art of Entertainment



PION - 04596

ORDER NO.
ARP2660

STEREO DOUBLE CASSETTE DECK RECEIVER

RX-Z36

RX-Z16

RX-Z36 AND RX-Z16 HAVE THE FOLLOWING :

Type	Model		Power Requirement	Remarks
	RX-Z36	RX-Z16		
SDXJ	○	○	AC110V, 120V-127V, 220V, 240V (Switchable)	
SLXJ	○	○	AC110V, 120V, 220V, 240V (Switchable)	
YPWXJ	○	○	AC240V only	

- This manual is applicable to the following : RX-Z36/SDXJ, SLXJ and YPWXJ ; RX-Z16/SDXJ, SLXJ and YPWXJ.
- For the following : RX-Z36/SLXJ and YPWXJ ; RX-Z16/SDXJ, SLXJ and YPWXJ, refer to page 49.

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4596

1. EXPLODED VIEWS, PACKING AND PARTS LIST

NOTES:

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

1.1 EXTERIOR AND PACKING

Parts list of Exterior

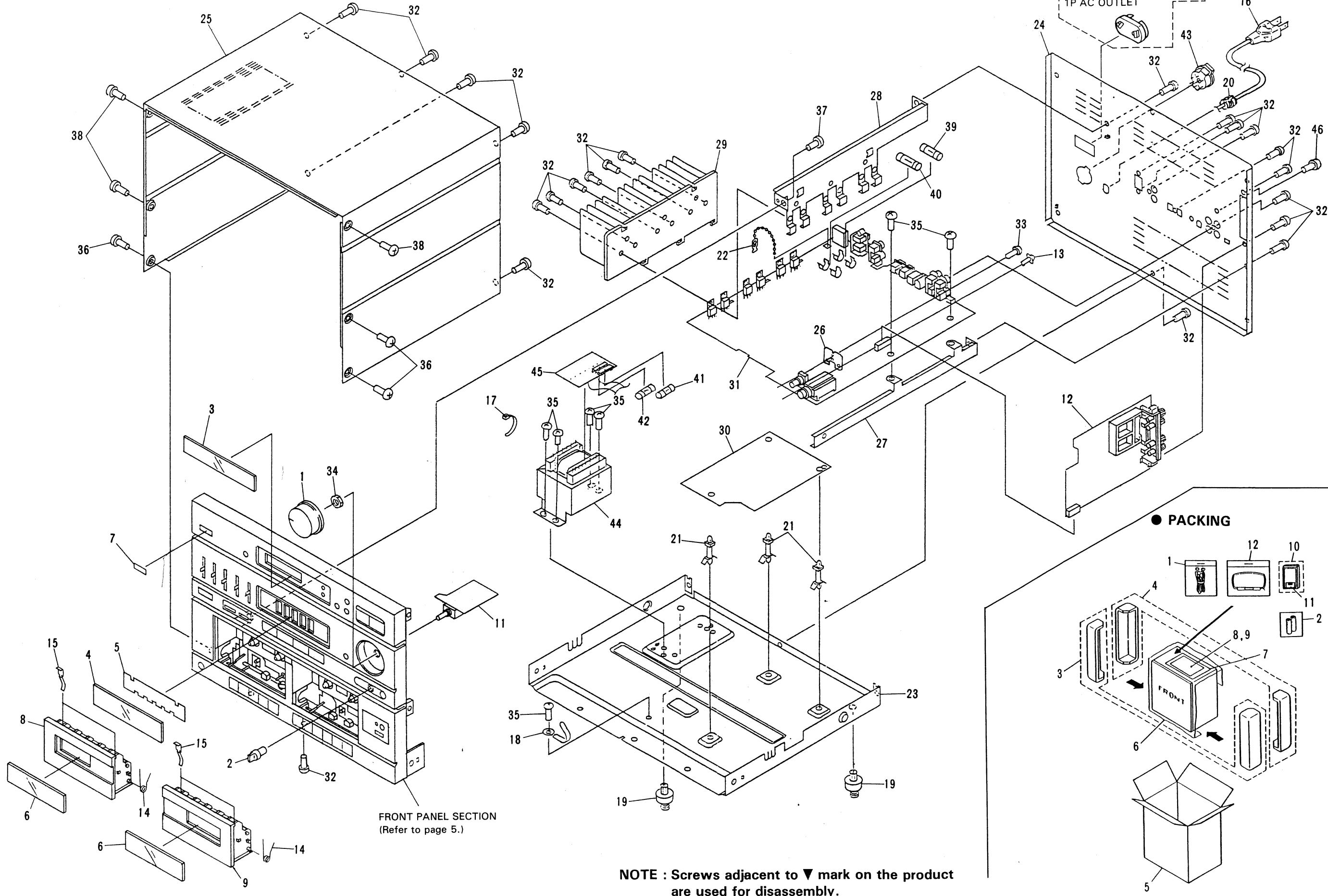
Mark	No.	Description	Parts No.
	1	VOLUME KNOB	AAB1264
	2	MIXING KNOB (MIC LEVEL)	AAB1265
	3	TUNER PANEL	AAK2238
	4	AMP. PANEL	AAK2239
	5	INDICATOR PANEL	AAK2421
	6	DOOR PANEL	AAK2241
	7	REMOTE FILTER	AAK2245
	8	CASSETTE DOOR (L)	AAN1373
	9	CASSETTE DOOR (R)	AAN1374
	10	.....	
NSP	11	VOLUME ASSEMBLY	AWZ3829
●	12	TUNER ASSEMBLY	AWZ3835
	13	SCREW (STEEL)	ABA1095
	14	SPRING	ABH1078
	15	KEEP PLATE	ABK1017
Δ	16	AC POWER CORD	ADG1051
NSP	17	NYLON BINDER	AEC-093
NSP	18	BINDER	AEC-826
	19	LEG ASS'Y	AEC-847
Δ	20	STRAIN RELIEF	AEC-882
NSP	21	PCB SPACER	AEC1100
NSP	22	NYLON BINDER	AEC1384
NSP	23	CHASSIS	ANA1162
	24	REAR PANEL	ANC2031
	25	BONNET CASE	ANE1346
NSP	26	JACK HOLDER	ANG1613
NSP	27	ASSEMBLY HOLDER	ANG1614
NSP	28	RADIATOR HOLDER	ANG1615
NSP	29	RADIATOR	ANH1357
●	30	DOLBY ASSEMBLY	AWZ4721
●	31	POWER ASSEMBLY	AWZ4725
	32	SCREW	BBZ30P080FZK
	33	SCREW	BPZ26P080FMC
	34	NUT	NK90FUC
	35	SCREW	BBZ30P060FMC
	36	SCREW	BBZ30P060FZK
	37	SCREW	VPZ30P080FMC
	38	SCREW	BPZ30P100FZK
Δ	39	FUSE (T800mA/250V, FU601)	AEK-507
Δ	40	FUSE (T800mA/250V, FU602)	AEK-507

Mark	No.	Description	Parts No.
Δ	41	FUSE (T800mA/250V, FU603)	AEK-507
Δ	42	FUSE (T800mA/250V, FU604)	AEK-507
Δ	43	VOLTAGE SELECTOR (S1)	AKX-507
Δ	44	POWER TRANSFORMER (T1)	ATS1389
NSP	45	TRANS ASSEMBLY	AWZ3863
	46	SCREW	ABA1153

Parts list of Packing

Mark	No.	Description	Parts No.
	1	FM ANTENNA	ADH1008
NSP	2	DRY CELL BATTERY (R03, AAA)	AEX-021
	3	FRONT PAD	AHA1474
	4	REAR PAD A	AHA1475
	5	PACKING CASE	AHD2466
NSP	6	SHEET	AHG1086
NSP	7	BAG	AHG1105
	8	OPE. INSTRUCTIONS (English)	ARB1400
	9	OPE. INSTRUCTIONS (Spanish)	ARC1384
	10	REMOTE CONTROL UNIT (CU-RX011)	AXD1257
	11	BATTERY COVER	AZA1361
	12	LOOP ANTENNA	ATB1006

● EXTERIOR

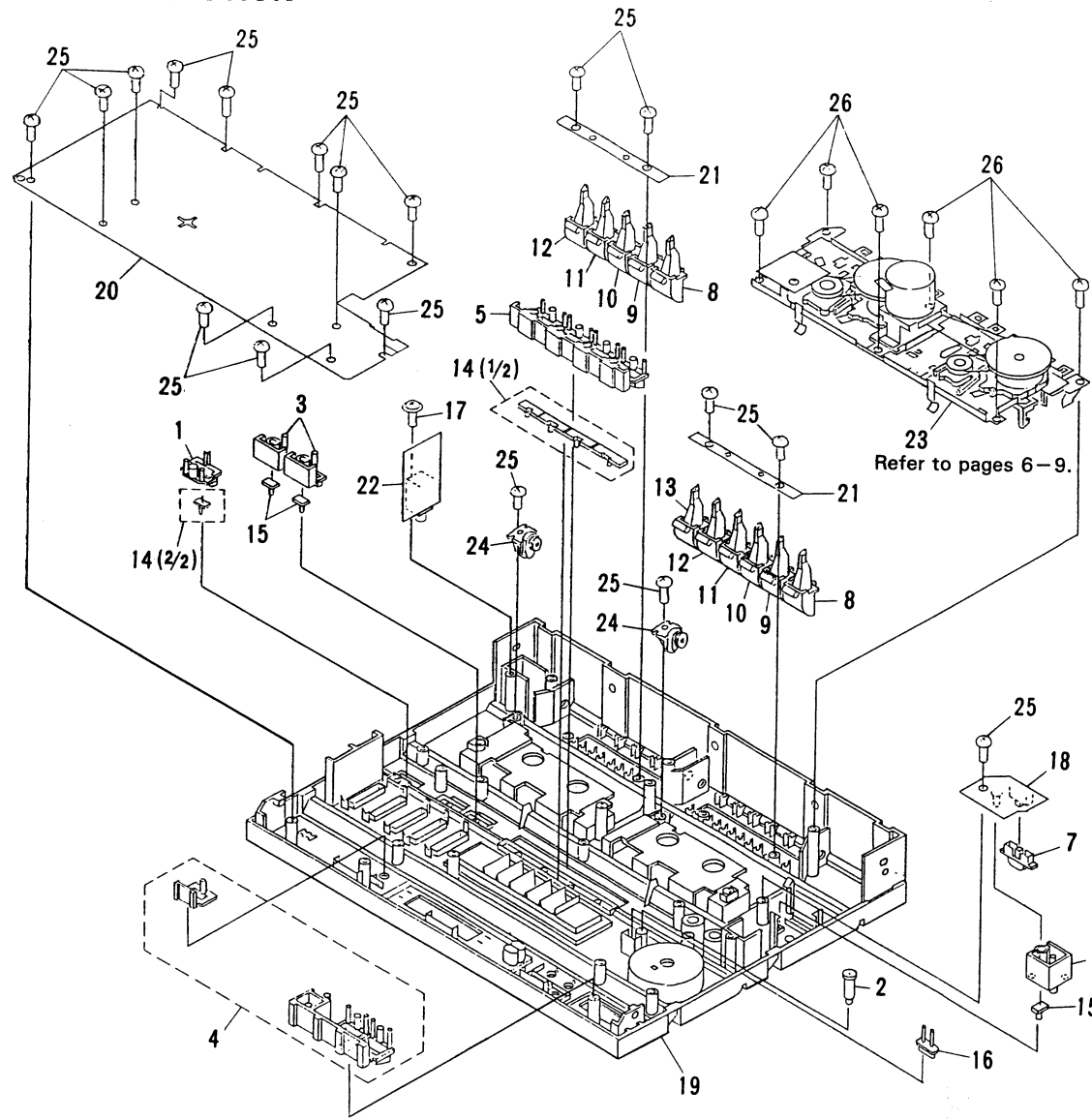


FRONT PANEL SECTION
(Refer to page 5.)

NOTE : Screws adjacent to ▼ mark on the product
are used for disassembly.

● PACKING

1.2 FRONT PANEL SECTION



Parts list of Front Panel Section

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	POWER BUTTON (STANDBY/ON)	AAD2123		12	DECK KNOB E (▶)	AAE1152
	2	SURROUND BUTTON (SURROUND & STEREO WIDE)	AAD2124		13	DECK KNOB F (●)	AAE1153
	3	P. BASS BUTTON (SUPER BASS)	AAD2125		14	FUNCTION LENS	AAK2242
	4	TUNING BUTTON	AAD2126		15	P. BASS LENS	AAK2243
	5	FUNCTION BUTTON	AAD2127		16	SURROUND LENS	AAK2244
	6	COPY BUTTON (HIGH-SPEED COPY)	AAD2128		17	SCREW (STEEL)	ABA1095
	7	DOLBY KNOB (DOLBY NR)	AAE1142	●	18	SWITCH ASSEMBLY	AWZ3836
	8	DECK KNOB A (▮)	AAE1143	●	19	FRONT PANEL	AMB2108
	9	DECK KNOB B (▮ / ▴)	AAE1144		20	DISPLAY ASSEMBLY	AWZ4940
	10	DECK KNOB C (▮ ▸)	AAE1145				
	11	DECK KNOB D (◀ ◁)	AAE1151	NSP	21	DECK KNOB HOLDER	ANG1616
				NSP	22	HEADPHONE ASSEMBLY	AWZ3834
					23	CASSETTE MECHA UNIT	AWY1174
					24	DAMPER ASSY	AXA1008
					25	SCREW	BPZ26P080FMC
					26	SCREW	VPZ30P080FMC

1.3 CASSETTE MECHA UNIT

Parts list of Cassette Mecha Unit

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	SPRING	AZB1336		57	BUTTON R HOLDER	AZN2163
	2	SPRING	AZB1337		58	BUTTON L HOLDER	AZN2164
	3	SPRING	AZB1338		59	P HOLDER	AZN2165
	4	SPRING	AZB1339		60	CONNECT PLATE	AZN2166
	5	SPRING	AZB1340				
	6	CASSETTE SPRING	AZB1343		61	CONNECT ARM	AZN2167
	7	SPRING	AZB1344		62	RELEASE ARM	AZN2168
	8	SPRING	AZB1346		63	MOTOR HOLDER	AZN2169
	9	SPRING	AZB1347		64	BASE SPI ASSY	AZN2171
	10	SPRING	AZB1348		65	TAPE GUIDE	AZN2174
	11	PLATE SPRING	AZB1349		66	E HEAD	AZP1025
	12	WASHER	AZB1350		67	R/P HEAD	AZP1036
	13	WASHER	AZB1351		68	MOTOR ASSY	AZX1037
	14	SPRING	AZB1352		69	SWITCH (S2)	ASX1014
	15	SPRING	AZB1353		70	CASSETTE MECHA	AWY1150
	16	EARTH LUG	AZB1354		71	2P WIRE ASSY A (J4)	ADD1104
	17	SCREW	AZB1355		72	2P WIRE ASSY B (J5)	ADD1105
	18	SCREW	AZB1356		73	2P WIRE ASSY C (J7)	ADD1106
	19	SCREW	AZB1357		74	4P JUMPER WIRE (J8)	ADD1107
	20	SCREW	AZB1358		75	2P WIRE ASSY D (J3)	ADD1108
	21	SCREW	AZB1359		76	2P WIRE ASSY E (J6)	ADD1109
	22	SCREW	AZB1360		77	3P HEAD WIRE ASSY (J1)	ADX1613
	23	SCREW	AZB1361		78	5P HEAD WIRE ASSY (J2)	ADX1614
	24	SCREW	AZB1362		79	SWITCH (S1)	ASX1014
	25	SCREW	AZB1363		80	SWITCH (S3)	ASX1014
	26	SCREW	AZB1364		81	CERAMIC CAPACITOR (C1)	CKDYF223Z50
	27	PC BOARD	AZN2111		82	SWITCH (S4)	ASX1014
	28	FRAM ASSY	AZN2113		83	SWITCH (S5)	ASX1014
	29	FUNCTION PLATE	AZN2116				
	30	REC STOPPER	AZN2117	NSP	101	SPRING	AZB1341
				NSP	102	SPRING	AZB1342
				NSP	103	SPRING	AZB1345
				NSP	104	CHASSIS	AZN2112
				NSP	105	FRAM	AZN2114
	31	SW LEVER	AZN2118	NSP	106	METAL	AZN2115
	32	REC LEVER	AZN2119	NSP	107	SPINDLE BASE	AZN2130
	33	PLAY LEVER	AZN2120	NSP	108	T REEL ASSY	AZN2131
	34	REW LEVER	AZN2121	NSP	109	REEL CAP	AZN2132
	35	FF LEVER	AZN2122	NSP	110	REEL GEAR	AZN2133
	36	SE LEVER	AZN2123	NSP	111	FELT	AZN2134
	37	PAUSE LEVER	AZN2124	NSP	112	T REEL	AZN2135
	38	PAUSE ARM	AZN2125	NSP	113	S REEL	AZN2136
	39	BELT	AZN2126	NSP	114	FF IDLER	AZN2137
	40	BELT	AZN2127	NSP	115	IDLER BASE	AZN2141
	41	P IDLER ARM	AZN2128	NSP	116	PF IDLER	AZN2142
	42	PL IDLER	AZN2129	NSP	117	PF PULLY HOLDER	AZN2143
	43	INTER LOCK	AZN2138	NSP	118	PF PULLY	AZN2144
	44	EJECT LEVER	AZN2139	NSP	119	PF BUSH	AZN2145
	45	PF FF IDLER ASSY	AZN2140	NSP	120	SHAFT	AZN2146
	46	SENSOR	AZN2148	NSP	121	FELT	AZN2147
	47	AS BASE	AZN2149	NSP	122	FLY WHEEL	AZN2154
	48	CAM GEAR	AZN2150	NSP	123	RING	AZN2155
	49	SENER LEVER	AZN2151	NSP	124	CAPSTAN SHAFT	AZN2156
	50	CONTROL LEVER	AZN2152	NSP	125	MOTOR PULLEY	AZN2170
	51	FW ASSY	AZN2153	NSP	126	MOTOR	AZX1038
	52	PINCH ARM	AZN2157	NSP	127	NYLON BINDER	AEC-093
	53	PINCH ROLLER	AZN2158	NSP	128	JUMPER CONNECTOR (7PL)	KPD7L
	54	HEAD BASE	AZN2159				
	55	HEAD HOLDER	AZN2160				
	56	SWITCH PLATE	AZN2162				

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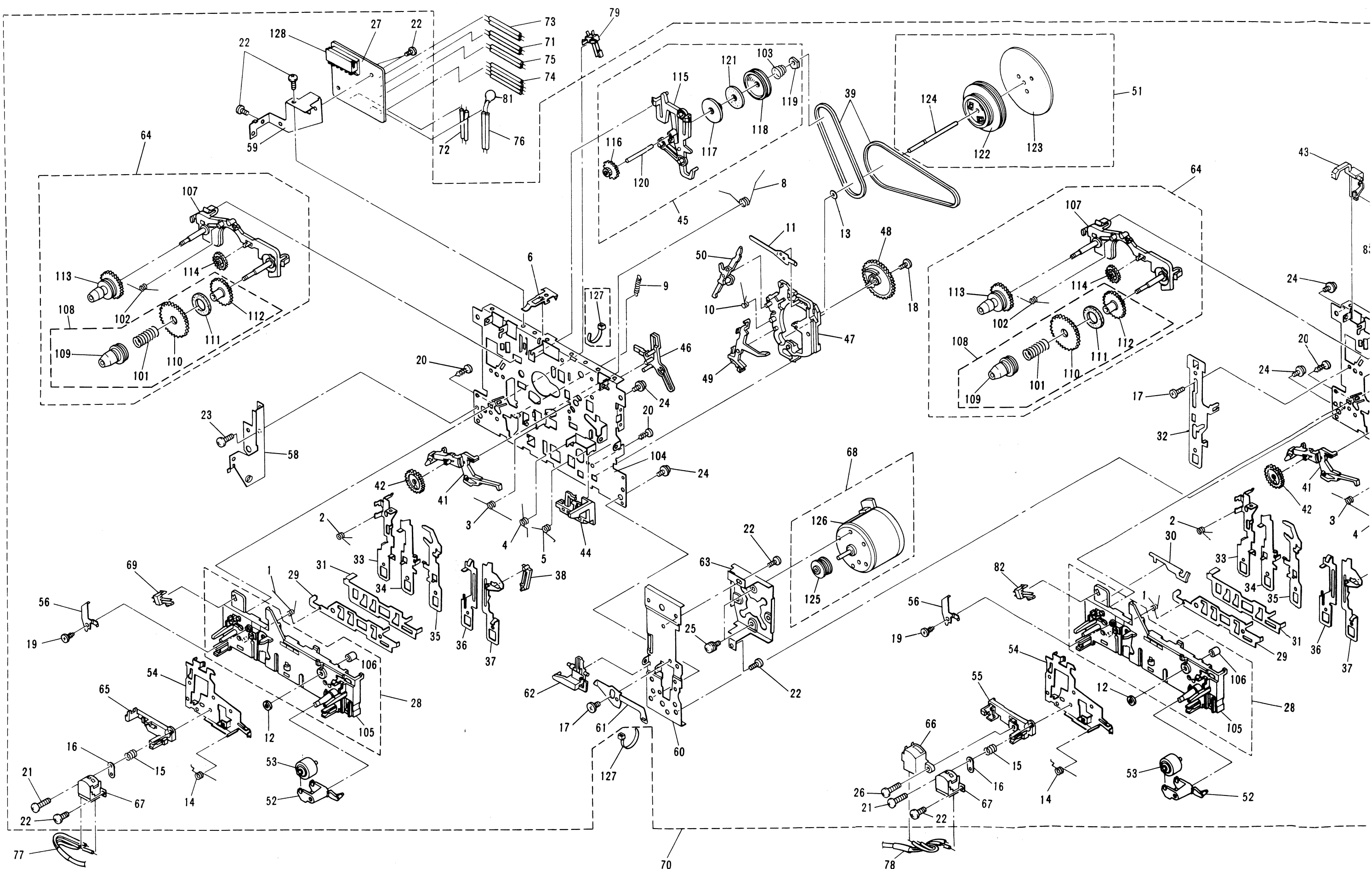
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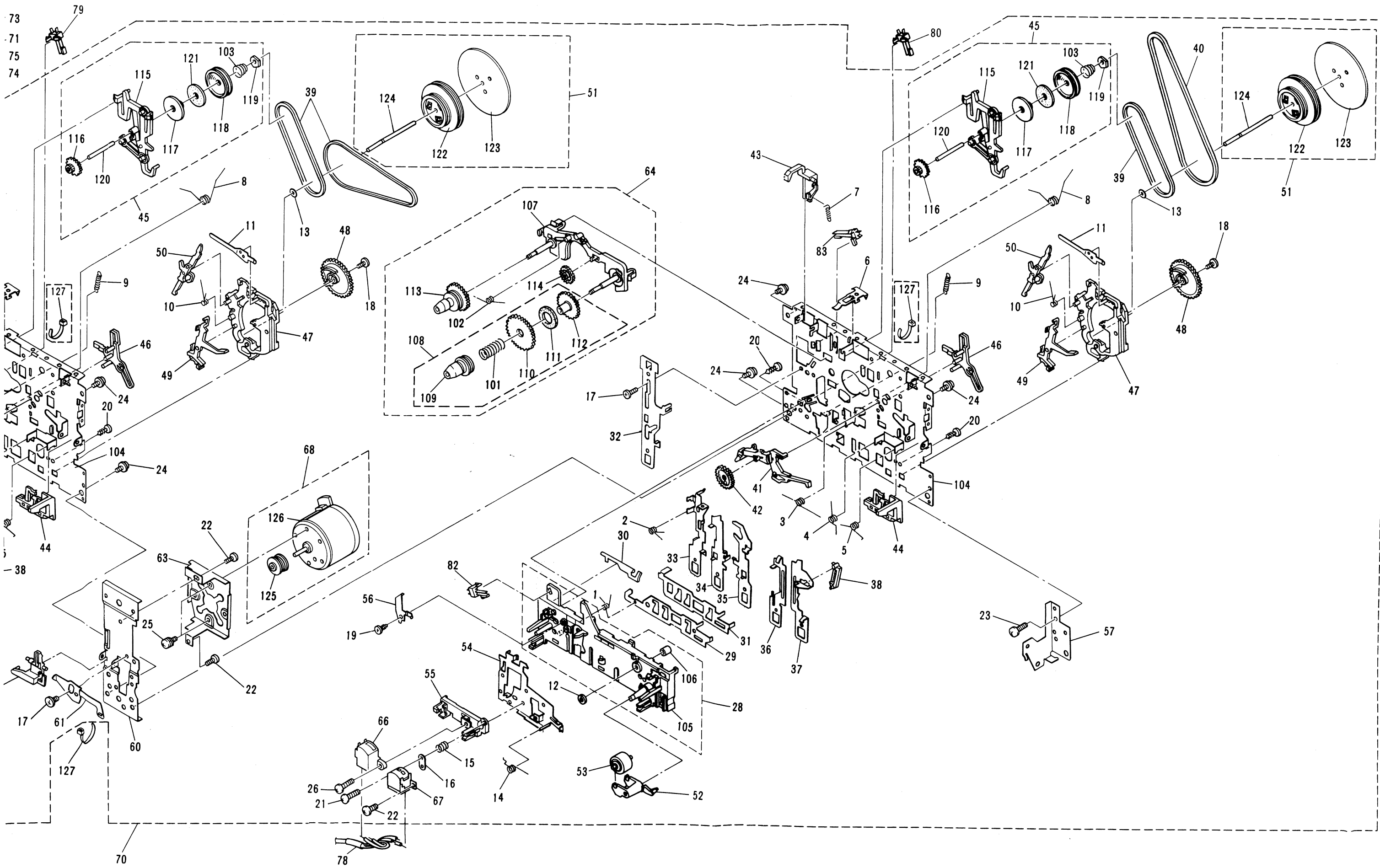
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2. SCHEMATIC AND PCB CONNECTION DIAGRAMS

2.1 OVERALL SCHEMATIC DIAGRAM

Note:

1. When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".

2. Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.

3. RESISTORS:
Unit: k:Ω, M:MΩ, or Ω unless otherwise noted.
Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.
Tolerance: (F): ±1%, (G): ±2%, (K): ±10%, (M): ±20% or ±5% unless otherwise noted.

4. CAPACITORS:
Unit: p:pF or μF unless otherwise noted.
Ratings: capacitor (μF)/ voltage (V) unless otherwise noted.
Rated voltage: 50V except for electrolytic capacitors.

5. COILS:
Unit: m:mH or μH unless otherwise noted.

6. VOLTAGE AND CURRENT:
V: Signal voltage at rated output.
V: DC voltage (V) at no input signal unless otherwise noted.
Value in () is DC voltage at rated power.
mV: Signal voltage at FM 1kHz, 100% MOD.
mA or mA: DC current at no input signal unless otherwise noted.

7. OTHERS:
•: Signal route.
⊙: Adjusting point.
▼ (Red): Measurement point.
The Δ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.

8. SWITCHES (Underline indicates switch position):

V: Signal voltage at rated output.

S1 VOLTAGE SELECTOR
AC110V/120-127V/220V/240V (SDXJ type)
AC110V/120V/220V/240V (SLXJ type)

POWER assembly
S201 CHANNEL STEP (9k/10k)

SWITCH assembly
S2061 HIGH-SPEED COPY (RX-Z36 only)
S2062 DOLBY NR ON/OFF (RX-Z36 only)

DISPLAY assembly
S51 TAPE
S53 ST. CALL
S54 SURROUND & STEREO WIDE (RX-Z36 only)

S55 TUNING (UP)
S56 POWER STANDBY/ON
S57 MEMORY
S58 TUNER
S59 PHONO
S60 TUNING (DOWN)
S61 CD
S62 BAND
S64 FM MONO
S2063 SUPER BASS (RX-Z36 only)

NOTE

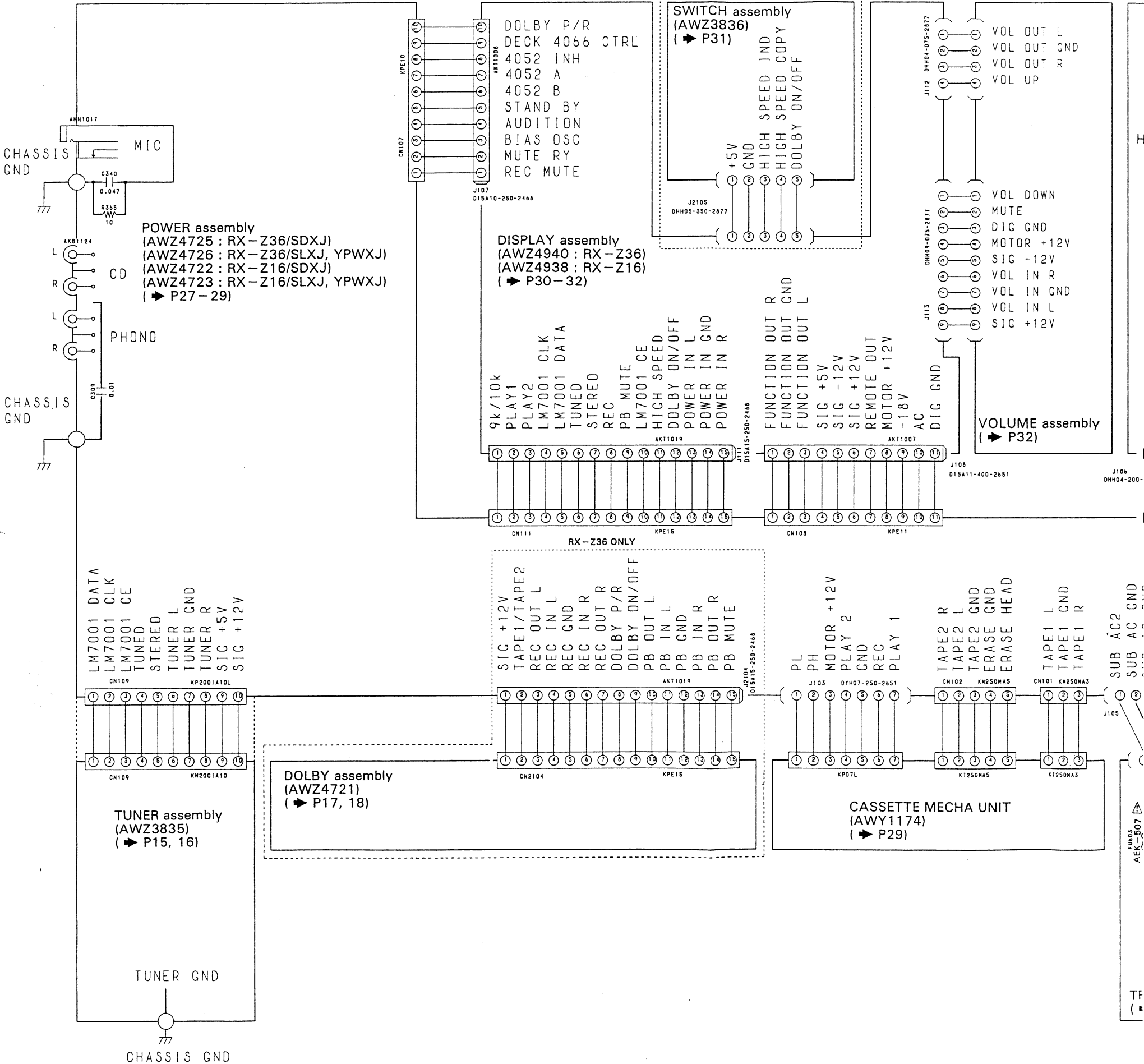
1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Radiator type transistor
		Diode
		Resistor
		Capacitor (Polarized)
		Capacitor (Non-polarized)

Others

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

3. The capacitor terminal marked with ⊙ (double circles) shows negative terminal.
4. The diode terminal marked with ⊙ (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.



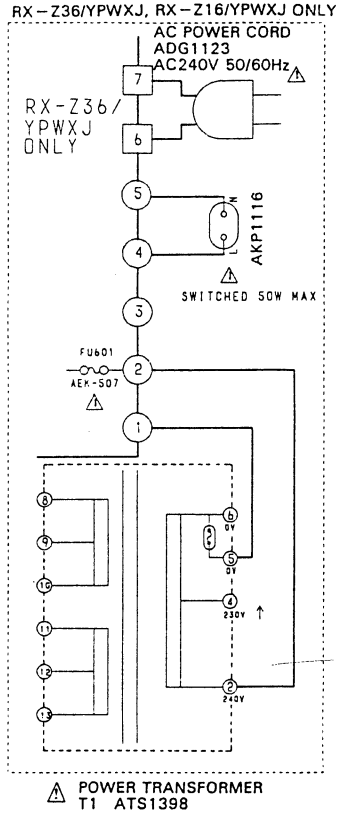
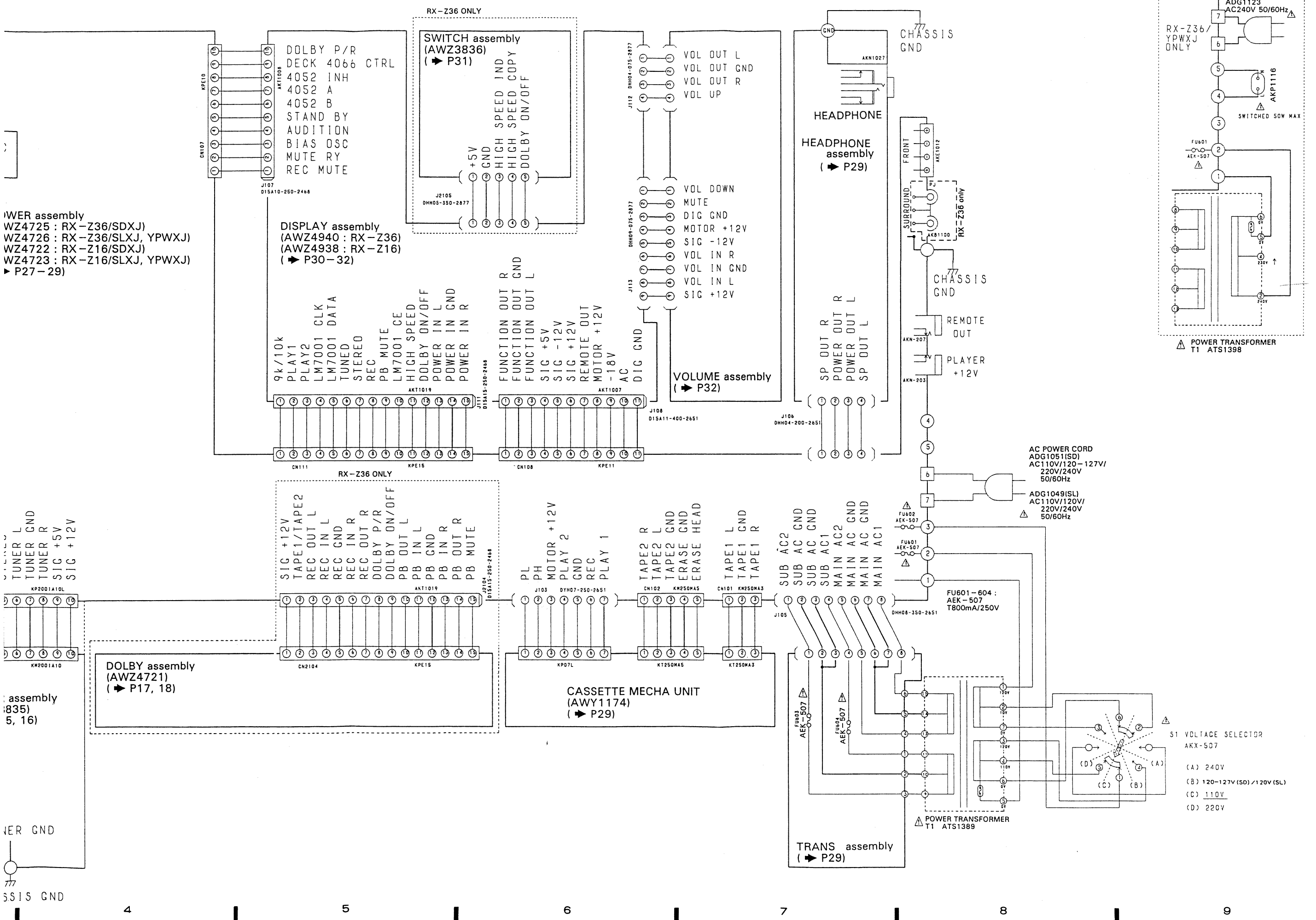
POWER assembly
WZ4725 : RX-Z36/SDXJ)
WZ4726 : RX-Z36/SLXJ, YPWXJ)
WZ4722 : RX-Z16/SDXJ)
WZ4723 : RX-Z16/SLXJ, YPWXJ)
▶ P27-29)

TUNER L
TUNER GND
TUNER R
SIG +5V
SIG +12V

assembly
(835)
5, 16)

WER GND

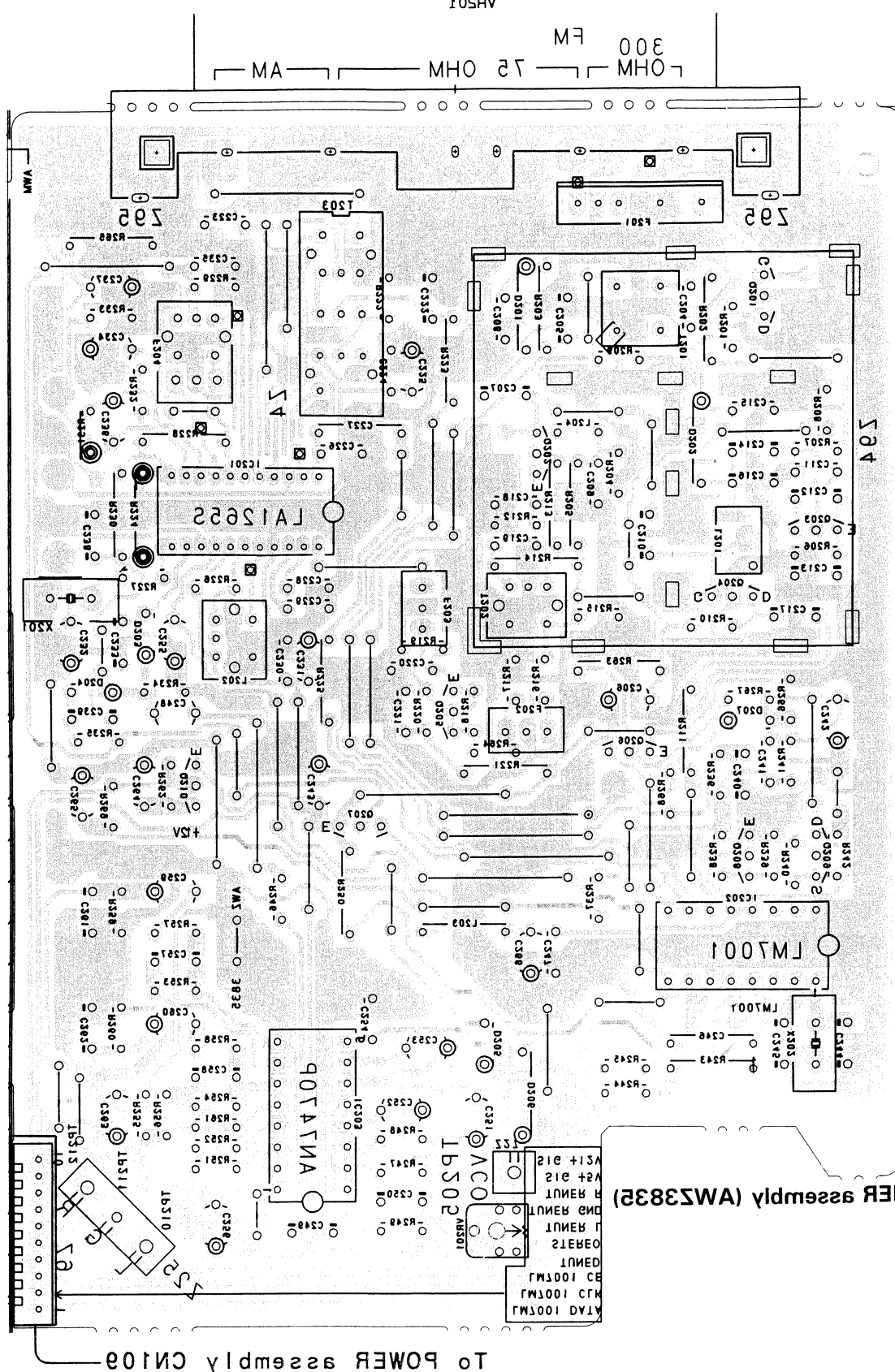
SSIS GND



A
B
C
D

5.5 TUNER ASSEMBLY

	IC505	D508 D507 D504 D506	D509 D502	IC503	D507	IC501	D503 D501 D505	D502	D508 D502	IC503	D507	IC501	D510 D503 D504
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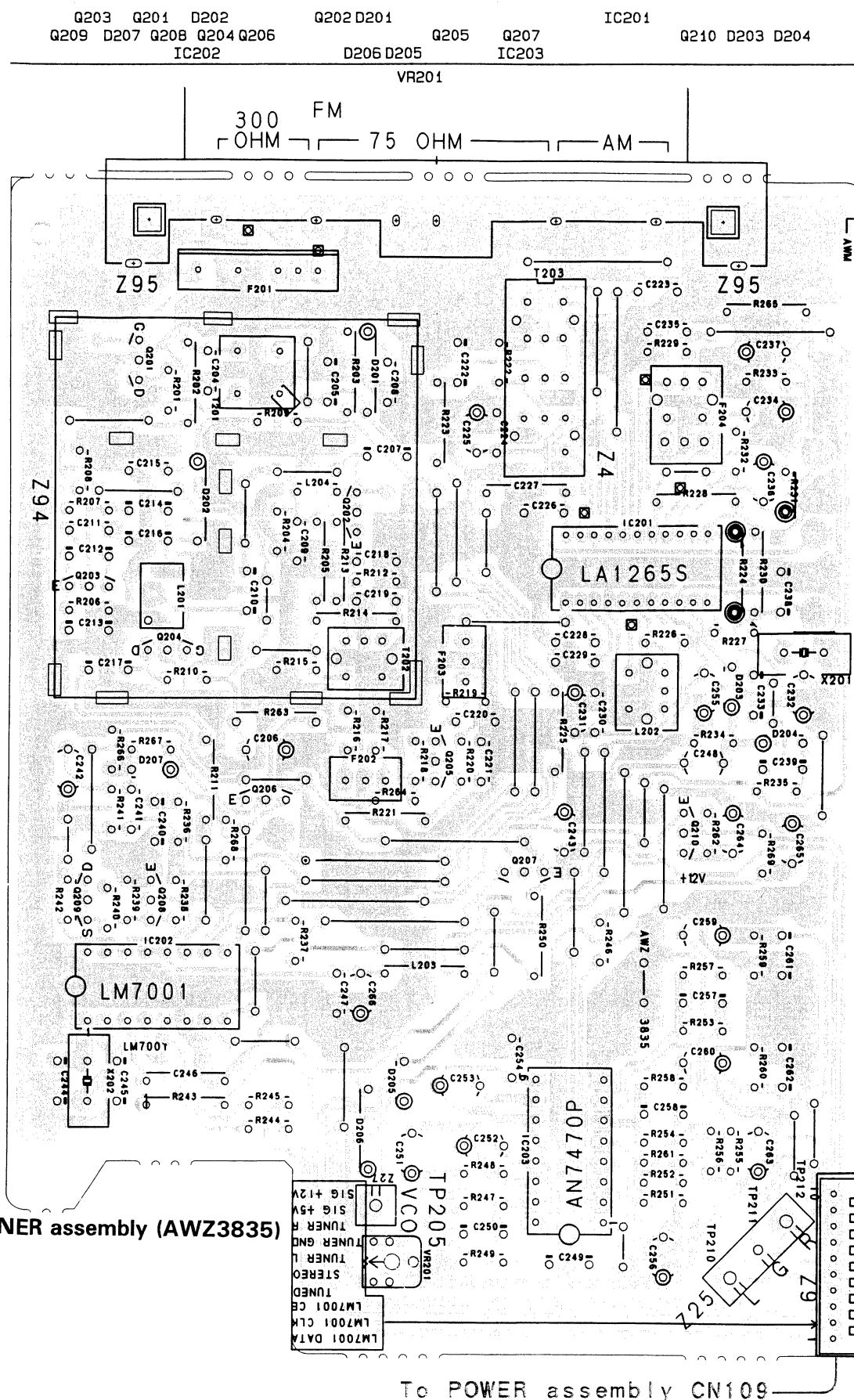
TUNER assembly (AW3835)

To POWER assembly CN109-

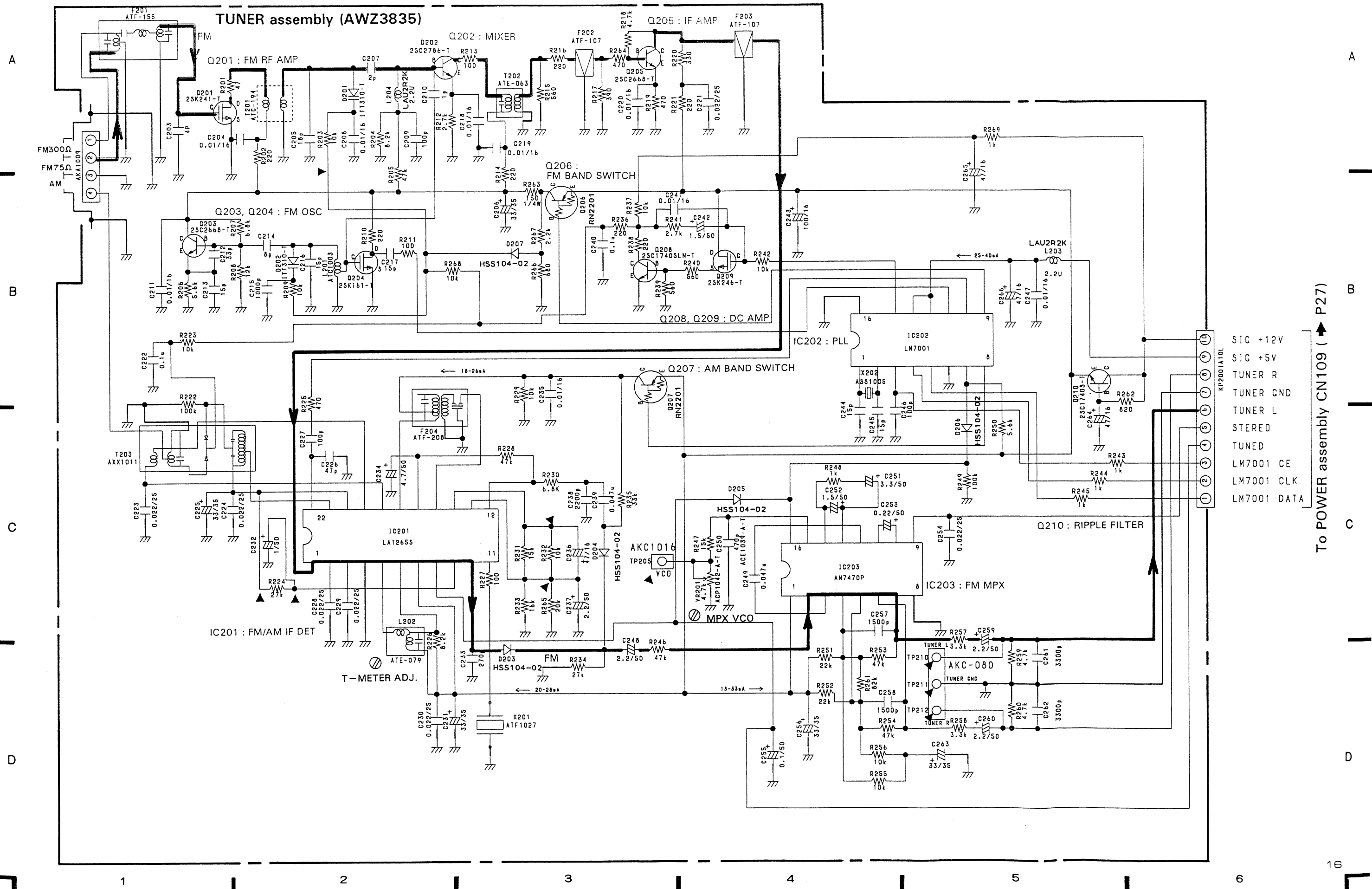
RX-Z36, RX-Z16

2.2 TUNER ASSEMBLY

This PCB connection diagram is viewed from the parts mounted side.



To POWER assembly CN109



A

C

D

1



POWER assembly

(AWZ4725 : RX-Z36/SDXJ)
(AWZ4726 : RX-Z36/SLXJ, YPWXJ)
(AWZ4722 : RX-Z16/SDXJ)
(AWZ4723 : RX-Z16/SLXJ, YPWXJ)

AC POWER CORD
AC 110V/120-127V (SD) ; 120V (SL)
220V/240V
50/60Hz

TRANS assembly

T1 POWER TRANSFORMER

S1 VOLTAGE SELECTOR

(A) To DISPLAY assembly J107

(B) To DISPLAY assembly J111

(C) To TUNER assembly CN109

(D) To DISPLAY assembly J108

This PCB connection diagram is viewed from the parts mounted side.

A

B

C

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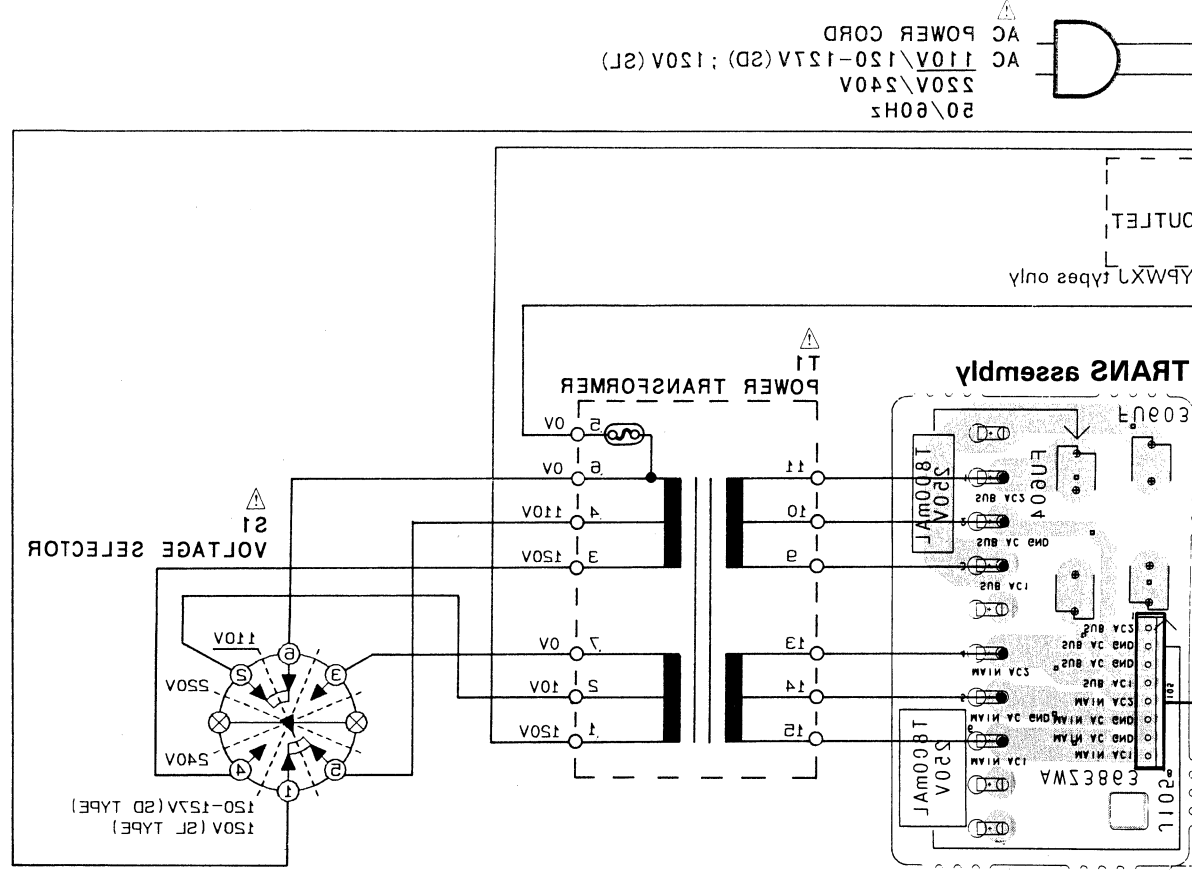
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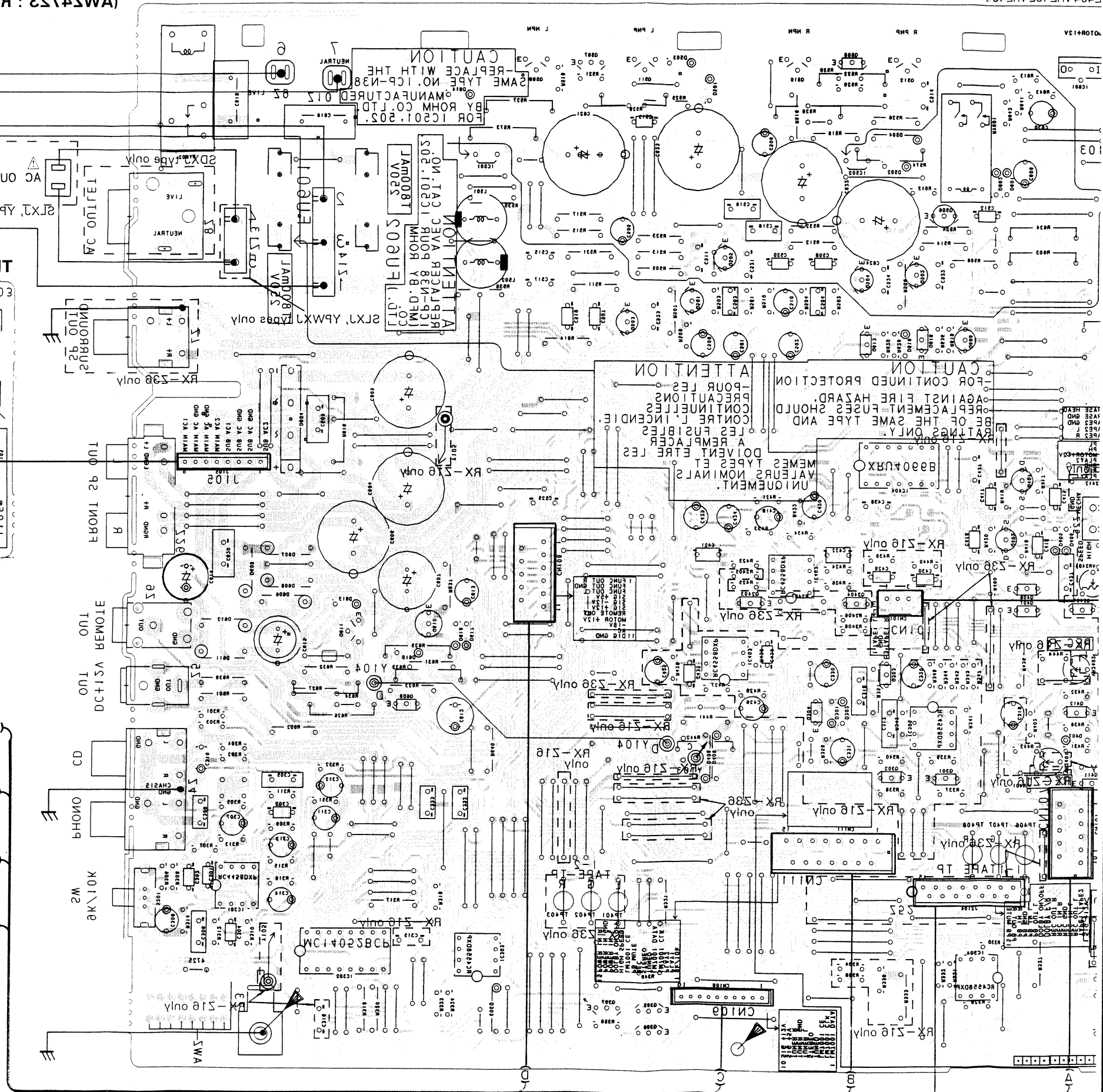
- (A) To DISPLAY assembly 1107
- (B) To DISPLAY assembly 1111
- (C) To TUNER assembly C109
- (D) To DISPLAY assembly 1108

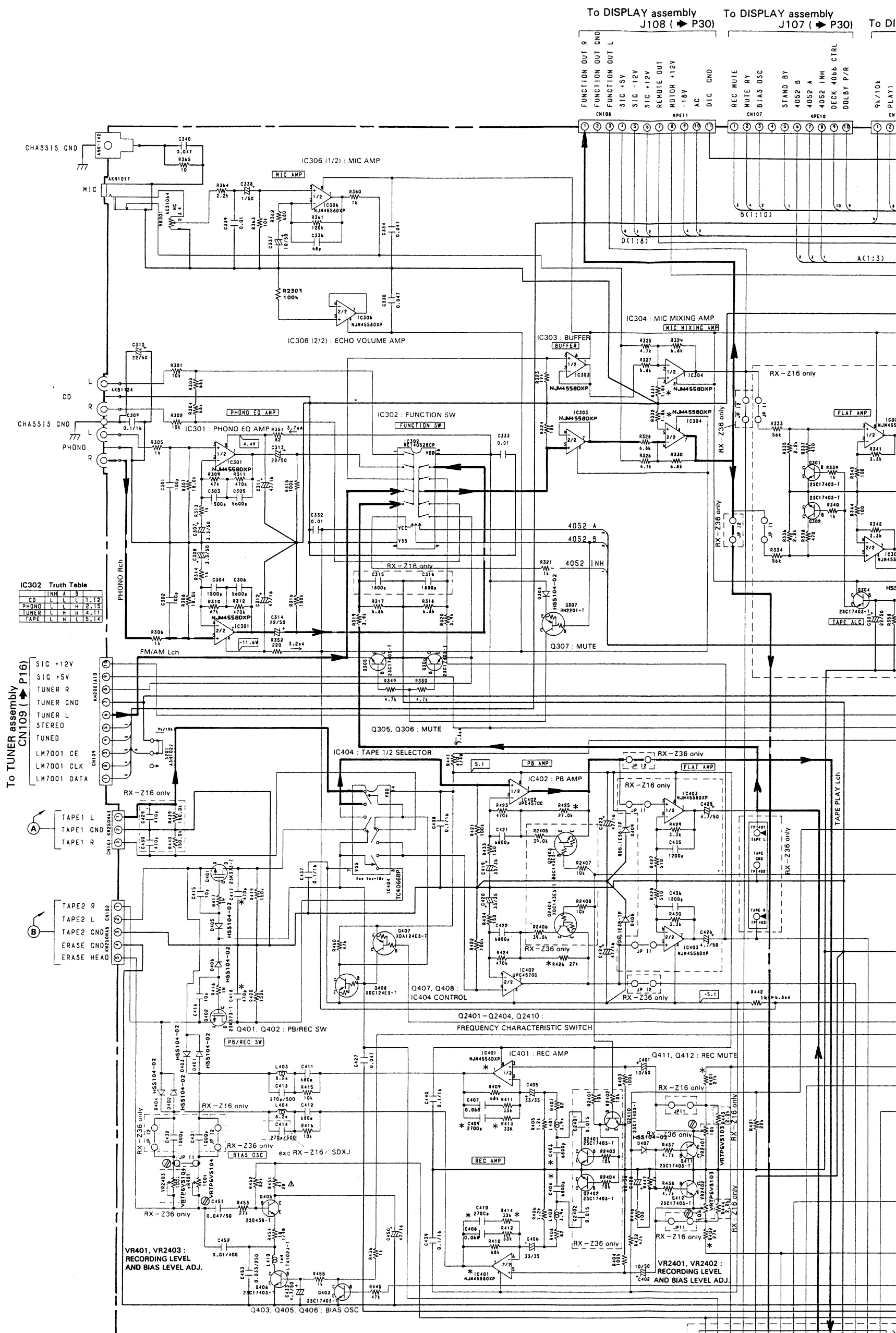
This PCB connection diagram is viwed from the foil side.



AC POWER CORD
AC 110V/120-127V (2D) ; 150V (2L)
50/60Hz

POWER assembly
(W4723 : RX-216(SLX1, YPWX1)
(W4722 : RX-216(SDX1)
(W4725 : RX-236(SLX1, YPWX1)
(W4726 : RX-236(SDX1)
(W4727 : RX-236(SLX1, YPWX1)





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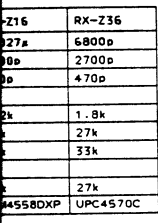
F

To DISPLAY assembly J108 (P30) To DISPLAY assembly J107 (P30) To DISPLAY assembly J106 (P30)

FUNCTION OUT R
FUNCTION OUT CND
FUNCTION OUT L
SIG +5V
SIG -12V
SIG +12V
REMOTE OUT
MOTOR +12V
-18V
AC
DIG CND
REC MUTE
MUTE RY
BIAS OSC
STAND BY
4052 B
4052 A
4052 INH
DECK 4066 CTRL
DOLBY P/R
9K/10K
PLAY1

To DOLBY assembly CN2104 (P17)

RX-Z36 only



assembly J111 (P30)

TUNED
STEREO
REC
PB MUTE
LM7001 CE
HIGH SPEED
DOLBY ON/OFF
POWER IN L
POWER IN R
POWER IN R
REMOTE OUT

POWER assembly (AWZ4725 : RX-Z36/SDXJ)
(AWZ4726 : RX-Z36/SLXJ, YPWXJ)
(AWZ4722 : RX-Z16/SDXJ)
(AWZ4723 : RX-Z16/SLXJ, YPWXJ)

CASSETTE MECHA UNIT
(1/3) (AWY1174)

CASSETTE MECHA UNIT
(2/3) (AWY1174)

Q501-Q512 : POWER AMP

POWER AMP

HEADPHONE assembly

HEADPHONE

IC601 : MOTOR +12V REGULATOR

Q607, Q608, Q615, Q616 : SWITCH

MUTE RY

POWER ON/OFF

REC MUTE

SIG +12V

SIG +5V

HI SPEED

SIG +5V

SIG +12V

SIG +12V

SIG +12V

SIG +12V

SIG +12V

SIG +12V

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SIG +12V

CASSETTE MECHA UNIT
(3/3) (AWY1174)

CASSETTE MECHA UNIT

CASSETTE MECHA UNIT

CASSETTE MECHA UNIT

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CASSETTE MECHA UNIT

A



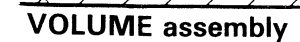
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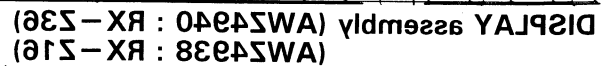
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3. PCB PARTS LIST

NOTES:

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560 Ω $\rightarrow$ 56 $\times 10^1$ $\rightarrow$ 561 RD1/8PM $\square$ $\square$ $\square$ J

47k Ω $\rightarrow$ 47 $\times 10^3$ $\rightarrow$ 473 RD1/4PS $\square$ $\square$ $\square$ J

0.5 Ω $\rightarrow$ 0R5 RN2H $\square$ $\square$ $\square$ K

1 Ω $\rightarrow$ 010 RS1P $\square$ $\square$ $\square$ K

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω $\rightarrow$ 562 $\times 10^1$ $\rightarrow$ 5621 RN1/4PC $\square$ $\square$ $\square$ $\square$ F

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
LIST OF ASSEMBLIES							
NSP		HEADPHONE ASSEMBLY	AWZ3834		Q610		2SB560
NSP		TRANS ASSEMBLY	AWZ3863		Q611		2SB834
●		POWER ASSEMBLY	AWZ4725		Q511, Q512		2SB950A
NSP		VOLUME ASSEMBLY	AWZ3829		Q305, Q306, Q403, Q406, Q411, Q412,		2SC1740S
●		TUNER ASSEMBLY	AWZ3835		Q507, Q508, Q605, Q612, Q613, Q621,		
					Q622, Q2401, Q2402, Q2408, Q2410		
●		SWITCH ASSEMBLY	AWZ3836		Q505, Q506, Q602		2SC1845
●		DOLBY ASSEMBLY	AWZ4721		Q614		2SC3377
●		DISPLAY ASSEMBLY	AWZ4940		Q509, Q510		2SD1276A
					Q405		2SD438
					Q401, Q402		2SK373
HEADPHONE ASSEMBLY					Q307		RN2201
RESISTORS					Q407, Q2407		XDA124ES
	R533, R534		RS1LMF331J		Q408, Q609, Q615, Q616, Q2409		XDC124ES
					Q2403, Q2404		XDC143ES
OTHERS					D303, D401 - D407, D501, D502,		HSS104 - 02
	CN HEADPHONE JACK		AKN1027		D603, D614 - D618		
					D604		D3SBA20 (A)
					D601, D602		RD12ESB
					D610		RD13ESB
TRANS ASSEMBLY					D613		RD20ESB
TRANS assembly has no service part.					D503, D504		RD4.3ESB
					D408, D409		RD5.1ESB
					D609		RD5.6ESB
					D605 - D608, D611, D612		S5566
POWER ASSEMBLY				SWITCH & RELAIES			
SEMICONDUCTORS					S201		ASH1027
	IC501, IC502		ICP - N38				
	IC302		MC14052BCP		RY602		ASR1027
	IC601, IC602		MC7812CT		RY601		ASR1035
	IC301, IC303, IC304, IC306, IC401		NJM4558DXP				
	IC404		TC4066BP	COILS			
	IC402		UPC4570C		L501, L502		ATH - 133
					L410		LTA102J
	Q601, Q606		2SA1048		L401, L402		LTA392J
	Q607, Q608		2SA1515		L403, L404		LTA822J
	Q501 - Q504		2SA992				

Mark	No.	Description	Parts No.
CAPACITORS			
	C618, C619	(0.01/400)	ACG1005
	C603, C620	(0.01/150)	ACG1005
	C604—C606	(2200/42)	ACH1109
	C413, C414		CCCSL271K500
	C415, C416		CCMSL100D50
	C301, C302, C513, C514		CCMSL101J50
	C521—C524		CCMSL470J50
	C336, C507, C508, C519, C520		CCMSL680J50
	C338		CEAS010M50
	C337, C401, C402, C601		CEAS100M50
	C614		CEAS101M50
	C615		CEAS101M63
	C607		CEAS102M35
	C310, C313, C314, C428		CEAS220M50
	C630		CEAS221M10
	C612		CEAS221M16
	C501, C502		CEAS2R2M50
	C405, C406, C419, C420		CEAS330M35
	C307, C308		CEAS3R3M50
	C311, C312, C423, C424, C450, C509,		CEAS470M16
	C510, C608—C611, C613, C617		
	C505, C506		CEAS470M25
	C621—C624		CEAS472M25
	C433		CEAS4R7M50
	C503, C504		CKCYB222K50
	C305, C306		CKCYB562K50
	C332, C333		CKCYF103Z50
	C334, C335, C340, C427		CKCYF473Z50
	C309, C437—C440, C525		CKCYX104M16
	C511, C512		CKMYB102K50
	C303, C304		CKMYB152K50
	C417, C418		CKMYB471K50
	C411, C412		CKMYB681K50
	C339		CQMA103J50
	C452		CQMA103K400
	C2401, C2402		CQMA153J50
	C409, C410		CQMA272J50
	C453		CQMA333K250
	C451		CQMA473J50
	C403, C404, C421, C422		CQMA682J50
	C407, C408		CQMA683J50
	C515—C518		CQMA823J50
RESISTORS			
	VR301	(10k—B)	ACS1064
	VR2401, VR2402		VRTP6VS103
	VR401, VR2403		VRTP6VS104
	VR402, VR2404		VRTP6VS502
	R601, R602, R639, R640		RD1/4PM100J
	R507, R508		RD1/4PM123J
	R454		RD1/4PM180J
	R525, R526		RD1/4PM221J
	R505, R506, R515—R518		RD1/4PM222J

Mark	No.	Description	Parts No.
	R637		RD1/4PM3R9J
	R441		RD1/4PM471J
	R627		RD1/4PM682J
	R531, R532		RD1/4PMF100J
	R523, R524		RD1/4PMF470J
	R535, R536		RD1/4PMFL100J
△	R442		RS1LMF102J
	R573, R574		RS2LMF010J
	R621, R638		RS2LMF101J
	R603		RS2LMF102J
	R626		RS2LMF181J
	R625, R633		RS2LMF221J
	R451		RS2LMF470J
	R634		RS2LMF681J
	R624		RS2LMF821J
	R616		RS2LMFR22J
	R527—R530		RS2LMFR68J
	Other Resistors		RD1/8PM□□□J
OTHERS			
	2P PIN JACK		AKB1100
	4P PIN JACK		AKB1124
	DC JACK		AKN—203
	MINI JACK		AKN—207
	MIC JACK		AKN1017
	CN 2P SPEAKER TERMINAL		AKE1031
△	1P AC OUTLET		AKP1060
	CN107 10P JUMPER CONNECTOR		KPE10
	CN108 11P JUMPER CONNECTOR		KPE11
	CN111 15P JUMPER CONNECTOR		KPE15

VOLUME ASSEMBLY

SEMICONDUCTORS

IC701	NJM4558DXP
IC702	TA7291S
Q701, Q702	2SC1740S
D701	HSS104—02

CAPACITORS

C701—C704	CEAS4R7M50
C705, C706	CKCYF103Z50
C707	CKCYF473Z50

RESISTORS

VR701	(100k—4B*2)	ACX1053
Other Resistors		RD1/8PM□□□J

Mark	No.	Description	Parts No.
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TUNER ASSEMBLY
SEMICONDUCTORS

IC203	AN7470P
IC201	LA1265S
IC202	LM7001
Q210	2SC1740S
Q208	2SC1740SLN
Q203, Q205	2SC2668
Q202	2SC2786
Q204	2SK161
Q201	2SK241
Q209	2SK246
Q206, Q207	RN2201
D203-D207	HSS104-02
D201, D202	ITT310

COILS & TRANSFORMER

T201	ATC-194
T202	ATE-063
L201	ATC1003
L202	ATE-079
L203, L204	LAU2R2K
F202, F203	ATF-107
F201	ATF-155
F204	ATF-208

CAPACITORS

C250 (470p/50)	ACE1039
C210	CCDCH010C50
C207	CCDCH020C50
C205	CCDRH150J50
C233	CCDSL271J50
C216	CCDTH150J50
C203	CCMCH040C50
C214	CCMCH080D50
C213, C217, C244, C245	CCMCH150J50
C212	CCMCH330J50
C226	CCPUSL470J50
C248	CEANP2R2M50
C232	CEAS010M50
C255	CEAS0R1M50
C243	CEAS101M16
C242, C252	CEAS1R5M50
C237, C259, C260	CEAS2R2M50
C206, C225, C231, C256, C263	CEAS330M35
C251	CEAS3R3M50
C236, C264-C266	CEAS470M16
C234	CEAS4R7M50
C253	CEASR22M50
C222, C240	CFTXA104J50
C238	CKCYB222K50
C261, C262	CKCYB332K50

Mark	No.	Description	Parts No.
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C249	CKCYF473Z50
C239	CKDYF473Z50
C257, C258	CKMYB152K50
C209, C227, C246	CKPUYB101K50
C215	CKPUYB102K50

C221, C223, C224, C228-C230, C254	CKPUYF223Z25
C204, C208, C211, C218-C220, C235, C241, C247	CKPUYY103N16

RESISTORS

VR201 (4.7k)	ACP1042
R263	RD1/4PM151J
Other Resistors	RD1/8PM□□□J

OTHERS

X202 (7.200MHz)	ASS1005
X201	ATF1027
4P ANTENNA TERMINAL	AKA1009
AM RF TUNING BLOCK	AXX1011

SWITCH ASSEMBLY
SEMICONDUCTORS

D2062	AEL1108
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SWITCHES

S2061	ASG1034
S2062	ASH1014

RESISTORS

All Resistors	RD1/8PM□□□J
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DOLBY ASSEMBLY
SEMICONDUCTORS

IC1301	CXA1100P
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Q1301-Q1305, Q1307, Q1309, Q1310	2SC1740S
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D1301-D1303	HSS104-02
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COILS

F1301, F1302	ATF1064
L1301, L1302	LAU221K

CAPACITORS

C1301-C1304, C1325, C1326	CEAS010M50
C1309	CEAS100M50
C1312	CEAS101M10
C1310	CEAS220M50
C1307, C1308	CEAS2R2M50

C1311	CEAS470M16
C1323, C1324	CEAS4R7M50

RX-Z36, RX-Z16

Mark	No.	Description	Parts No.
	C1305, C1306 C1313 C1315, C1316		CEASR68M50 CKCYF473Z50 CKCYX103M16
	C1319, C1320 C1317, C1318		CKCYX104M16 CKCYX333M16
RESISTORS			
	VR1303, VR1304 VR1301, VR1302		VRTP6HS104 VRTP6HS203
	Other Resistors		RD1/8PM□□□J
OTHERS			
	CN2104 15P JUMPER CONNECTOR		KPE15
DISPLAY ASSEMBLY			
SEMICONDUCTORS			
	IC105, IC106 IC103, IC2101-IC2104 IC102, IC2061 IC51		BA3812L BA6144 NJM4558DXP PDG079A
	Q53 Q59, Q113-Q115, Q2065, Q2066, Q2101-Q2104 Q54 Q52		2SB560 2SC1740S 2SC3377 2SD438
	Q111 Q51, Q55, Q58 Q57, Q2061 Q56		2SK246 RN2201 XDC124ES XDC143ES
	D51, D62, D66, D69, D101 D2105 D55-D59, D67, D68, D2063 D60 D52		HSS104-02 AEL1044 AEL1108 AEL1130 RD10ESB1
	D54 D53 D71-D73 D61		RD11ESB2 RD3.6ESB1 RD5.1ESB RD6.2ESB3
SWITCHES			
	S51, S53-S62, S64, S2063		ASG1034
COIL			
	L51		LAU220K
CAPACITORS			
	C51 C119, C120 C123, C124 C135, C2106, C2110, C2114, C2118 C133 C53, C139-C142		ACH1135 CCDSL101J50 CCMSL121J50 CEAS100M50 CEAS330M35 CEAS470M16

Mark	No.	Description	Parts No.
	C50, C55, C56, C125, C126, C137, C138 C109, C110		CEAS4R7M50 CEASR15M50
	C2105 C134 C117, C118 C105, C106 C103, C104		CEASR22M50 CEASR33M50 CEASR68M50 CGMYB182M50 CGMYX392M25
	C115, C116 C2111, C2112 C2117 C2107, C2108 C2115, C2116		CGMYX682M25 CKCYB272K50 CKCYB332K50 CKCYB682K50 CKCYB821K50
	C52, C143, C144 C54 C107, C108 C113, C114, C2103, C2104		CKCYF473Z50 CKCYX104M16 CKCYX153M16 CKCYX183M16
	C2113 C2109 C121, C122 C131, C132, C2101 C101, C102		CKCYX223M25 CKCYX333M16 CKCYX393M16 CKCYX473M16 CKCYX683M16
	C111, C112 C127, C128 C129 C2061, C2062 C2063, C2064		CKMYB391K50 CKMYB471K50 CKMYB681K50 CQMA223J50 CQMA473J50
RESISTORS			
	VR101-VR105 (100k-B5×2)		ACU1030
	R165 R91 R51-R55 R2101, R2108, R2115, R2122, R2129 R79		RD1/4PM101J RD1/4PM220J RD1/4PM270J RD1/4PM390J RS2LMF390J
	Other Resistors		RD1/8PM□□□J
OTHERS			
	REMOTE SENSOR UNIT X51 (4.00MHz) V51 FL TUBE		AXX1023 ASS1025 AAV-039

4. ADJUSTMENTS

4.1 TUNER BLOCK

4.1.1 FM Tuner Block

- Set to the FM band.
- Connect the tuner as shown in Fig. 4-1.
- The adjustment locations and the TP terminals are in the TUNER assembly.

Note :

TUNER BLOCK adjustment of RX-Z36 and RX-Z16 are the same.

*1 : Stereo modulation : Main 1kHz L+R $\pm 68.25\text{kHz dev.}$
Pilot 19kHz $\pm 6.75\text{kHz dev.}$

Step No.	Adjustment	FM SG (1kHz±75kHz dev.)		Reception frequency display	Adjustment location	Specifications						
		Frequency (MHz)	Level (dBμV)									
1	Adjustment of FM sensitivity	98	Low input	98MHz	T201	Adjust to maximize the output voltage of TP210 (Lch OUT) or TP212 (Rch OUT).						
2	Confirmation of 87.5MHz VT (tuning voltage)	No input		87.5MHz	—	Confirm that the foot of R203 is 3.5V ±1.5V.						
3	Confirmation and adjustment of 108MHz VT (tuning voltage)			108MHz	L201	Confirm that the foot of R203 is 8.7V $\pm\frac{1}{2}$ V. Adjust at L201 only if the voltage is 10V or more.						
4	Adjustment of T-METER	98	60	98MHz	L202	Adjust so that the potential difference between both side of R224 is 0V ±10mV.						
5	Adjustment of the TUNED IND. activation level.	98	See the table on the right.	98MHz	R265	R265 is either mounted or removed at adjustment before shipment. Refer to the table below and mount or remove R265 to align with the point at which the TUNED IND. lights up. <table><tr><td>R265</td><td>Input level</td></tr><tr><td>Required</td><td>25dBμV (±15dB)</td></tr><tr><td>Not required</td><td>More than 25dBμV (+15dB)</td></tr></table>	R265	Input level	Required	25dBμV (±15dB)	Not required	More than 25dBμV (+15dB)
R265	Input level											
Required	25dBμV (±15dB)											
Not required	More than 25dBμV (+15dB)											
6	Adjustment of MPX VCO	No modulation	80	98MHz	VR201	Adjust so that the frequency of TP205 is 76kHz ±100Hz.						
7	Adjustment of distortion	98 *1 (Stereo)	60	98MHz	T202	If distortion of TP210 (Lch OUT) or TP212 (Rch OUT) exceeds 1.5%, then adjust it at T202 to be 1.5% or less.						

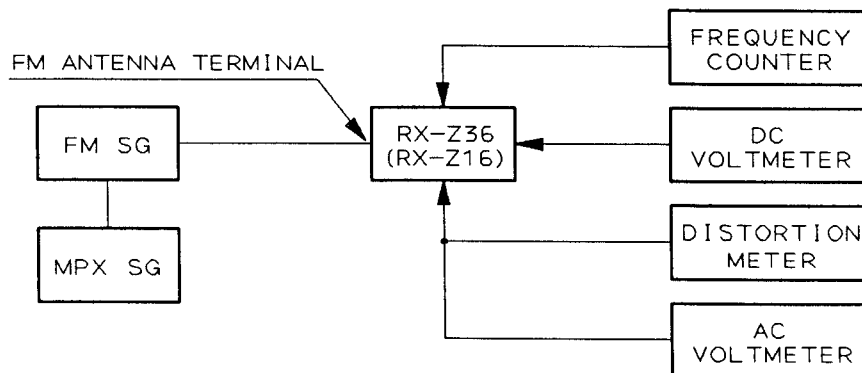


Fig. 4-1 FM adjustment connection diagram

4.1.2 AM Tuner Block

- Set to the AM band.
- Connect the tuner as shown in Fig. 4-2.
- The adjustment locations and the TP terminals are in the TUNER assembly.

Step No.	Adjustment	AM SG (400Hz 30% Mod.)		Reception frequency display	Adjustment location	Specifications						
		Frequency (kHz)	Level (dB μ V/m)									
1	Adjustment of the TUNED IND. activation level.	1000 *2	See the table on the right.	1000kHz	R232	R232 is either mounted or removed at adjustment before shipment. Refer to the table below and mount or remove R232 to align with the point at which the TUNED IND. lights up. <table><tr><td>R232</td><td>Input level</td></tr><tr><td>Required</td><td>60dBμV/m or less</td></tr><tr><td>Not required</td><td>More than 60dBμV/m</td></tr></table>	R232	Input level	Required	60dB μ V/m or less	Not required	More than 60dB μ V/m
R232	Input level											
Required	60dB μ V/m or less											
Not required	More than 60dB μ V/m											

*2 : This frequency applies to the areas classified as 10kHz step. For YPWXJ and the areas of 9kHz step, perform adjustment at 999kHz.

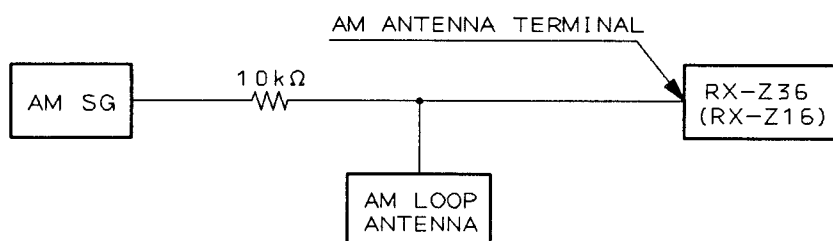


Fig. 4-2 AM adjustment connection diagram

4.2 DECK BLOCK

4.2.1 Adjustment of Mechanical Section

- Test tape : STD-301 (3kHz 30min)
- Setting of high speed mode : Short-circuit TP409 and TP410 of the POWER assembly. To release the mode, disconnect the short circuit.

1. Adjustment of tape speed							
No.	Mode	Input signal & Test tape	Adjustment location		Measuring location	Adjustment value	Remarks
1	PLAY	Playback the STD-301 tape to 3kHz.	Deck I	POWER assembly VR402	POWER assembly TP401	Press the PLAY button and adjust the frequency to 3010Hz $\pm$ 10Hz. Make sure that the wow and flutter is within 0.3%.	
2	PLAY (High speed mode)			POWER assembly VR2404	(for RX-Z36) TP406 (for RX-Z16)	Change to the high speed mode and press the PLAY button. Adjust the frequency to 6020Hz $\pm$ 20Hz.	RX-Z36 only

4.2.2 Adjustment of Electric Section

■ Check and conduct the following before adjusting the electric section.

1. Adjustment of tape speed has been completed.
2. Clean and demagnetize the head using a head eraser.
3. When measured, the level should be 0dBV = 1 Vrms.
4. Use side A of the specified tape for adjustment.
STD-331E : For adjustment of playback system.
STD-630 : NORMAL blank tape
5. Prepare the following measuring devices :
AC millivoltmeter, Low-frequency oscillator, Attenuator, Oscilloscope
6. Adjust both L and R channels, unless specified otherwise.
7. Set the DOLBY NR switches to OFF (RX-Z36 only) and MIC MIX to MIN.
8. Warm up the unit for several minutes before adjustment. Especially before adjusting the frequency characteristics of recording and playback, warm up for 3 to 5 minutes in REC/PLAY mode.
9. Make sure to follow the proper order of the adjustment procedure. Any change in the order may cause an improper result.

List of Adjustment

Deck I

1. Head azimuth adjustment
2. Playback level adjustment

Deck II

1. Head azimuth adjustment
2. Playback level adjustment
3. Recording level and bias level adjustment

NOTE :

As the reference recording level is 250nwb/m for STD-331E, the recording level will be higher by 4 dB for STD-331B (160nwb/m). When adjusting, pay carefull attention to the type of tape used.

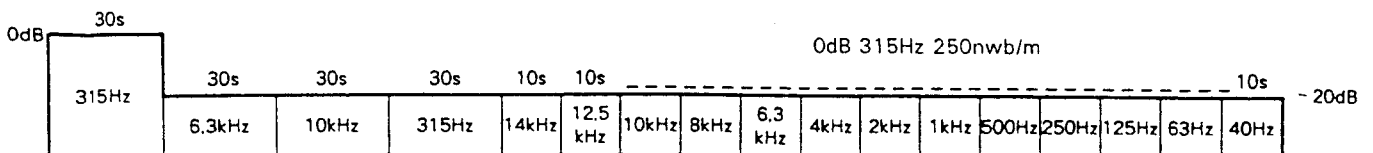
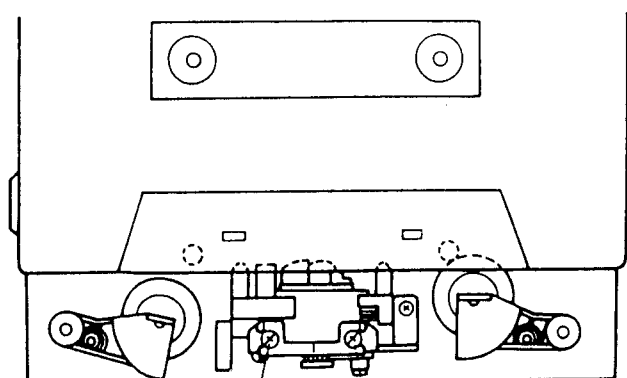


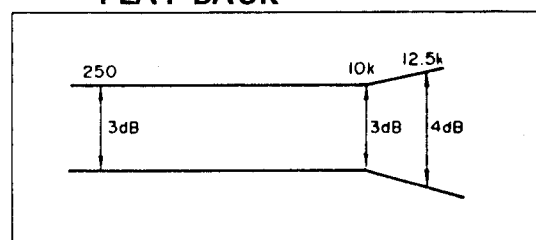
Fig. 4-3 Test tape STD-331E



Azimuth adjustment screw

Fig. 4-4 Head azimuth adjustment

PLAY BACK



RECORDING

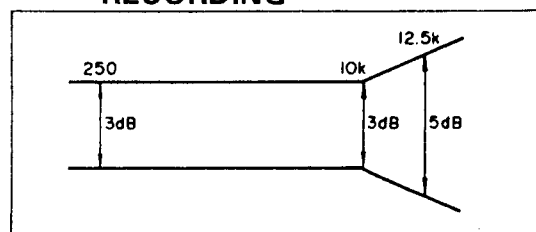


Fig. 4-5 Frequency characteristics

Head Adjustment of Deck I

1. Head Azimuth Adjustment

Pro-cedure	Tape selector	Mode	Input signal/test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1	NORM	PLAY	Playback the test tape STD-331E (10kHz, -20dB).	Head azimuth adjustment screw (Fig. 4-4)	POWER assembly TP401, TP403 (for RX-Z36) TP406, TP408 (for RX-Z16)	Adjust so that the signal level is at maximum and the phase difference is zero (0).	Lock the screw with screw lock after completing adjustment.

2. Playback Level Adjustment

- Be sure to make a careful adjustment, as the adjustment determines the DOLBY NR level for playback.

Pro-cedure	Tape selector	Mode	Input signal/test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1	NORM	PLAY	Playback the test tape STD-331E (315Hz, 0dB).	DOLBY assembly VR1301 (Lch) VR1302 (Rch)	POWER assembly TP401 (Lch) TP403 (Rch)	-1.2dBV $\pm$ 0.5dB	RX-Z36 only

Head Adjustment of Deck II

1. Head Azimuth Adjustment

Pro-cedure	Tape selector	Mode	Input signal/test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1	NORM	PLAY	Playback the test tape STD-331E (10kHz, -20dB).	Head azimuth adjustment screw (Fig. 4-4)	POWER assembly TP401, TP403 (for RX-Z36) TP406, TP408 (for RX-Z16)	Adjust so that the signal level is at maximum and the phase difference is zero (0).	Lock the screw with screw lock after completing adjustment.

2. Playback Level Adjustment

- Be sure to make a careful adjustment, as the adjustment determines the DOLBY NR level for playback.

Pro- cedure	Tape selector	Mode	Input signal/test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1	NORM	PLAY	Playback the test tape STD-331E (315Hz, 0dB).	DOLBY assembly VR1303 (Lch) VR1304 (Rch)	POWER assembly TP401 (Lch) TP403 (Rch)	-1.2dBV $\pm$ 0.5dB	RX-Z36 only

3. Recording Level and Bias Level Adjustment

- Before starting adjustment, turn VR401 and VR2403 by 45 degrees counterclockwise from the mechanical center.

Pro- cedure	Tape selector	Mode	Input signal/test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1	NORM	REC PAUSE	Inputs 315Hz to the CD RCA input terminal. Set the function to CD. Set test tape STD-630.	Input signal level	POWER assembly TP401, TP403 (for RX-Z36) TP406 (for RX-Z16)	Set the input signal to be -25.2dBV.	
2		REC/ PLAY	Record and playback the test tape STD-630.	POWER assembly VR2401, VR2402 (for RX-Z36) VR401 (for RX-Z16)		Repeat recording/playback until the playback level of 315Hz is -25.2dBV ±0.5dBV.	
3		REC PAUSE	Inputs 10kHz to the CD RCA input terminal. Set the function to CD. Set test tape STD-630.	Input signal level		Set the input signal to be -25.2dBV.	
4		REC/ PLAY	Record and playback the test tape STD-630.	POWER assembly VR401 (Lch) VR2403 (Rch)		Repeat recording/playback until the playback level of 10kHz is -25.2dBV ±0.5dBV.	RX-Z36 only
5	Repeat steps 1 to 4 and attain the best adjustment.						

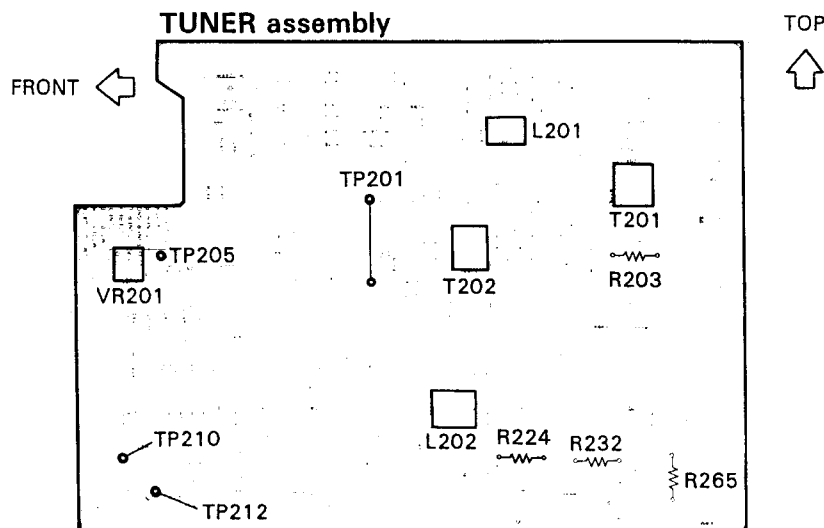


Fig. 4-6-1 Adjustment Points

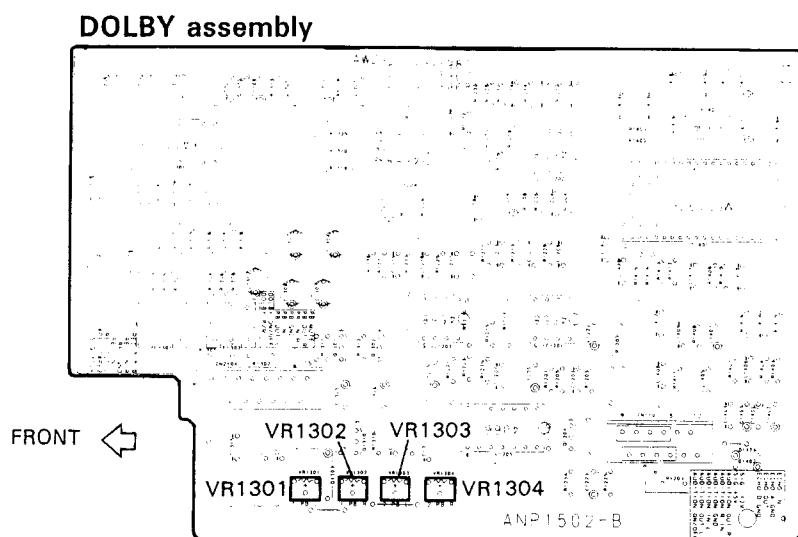
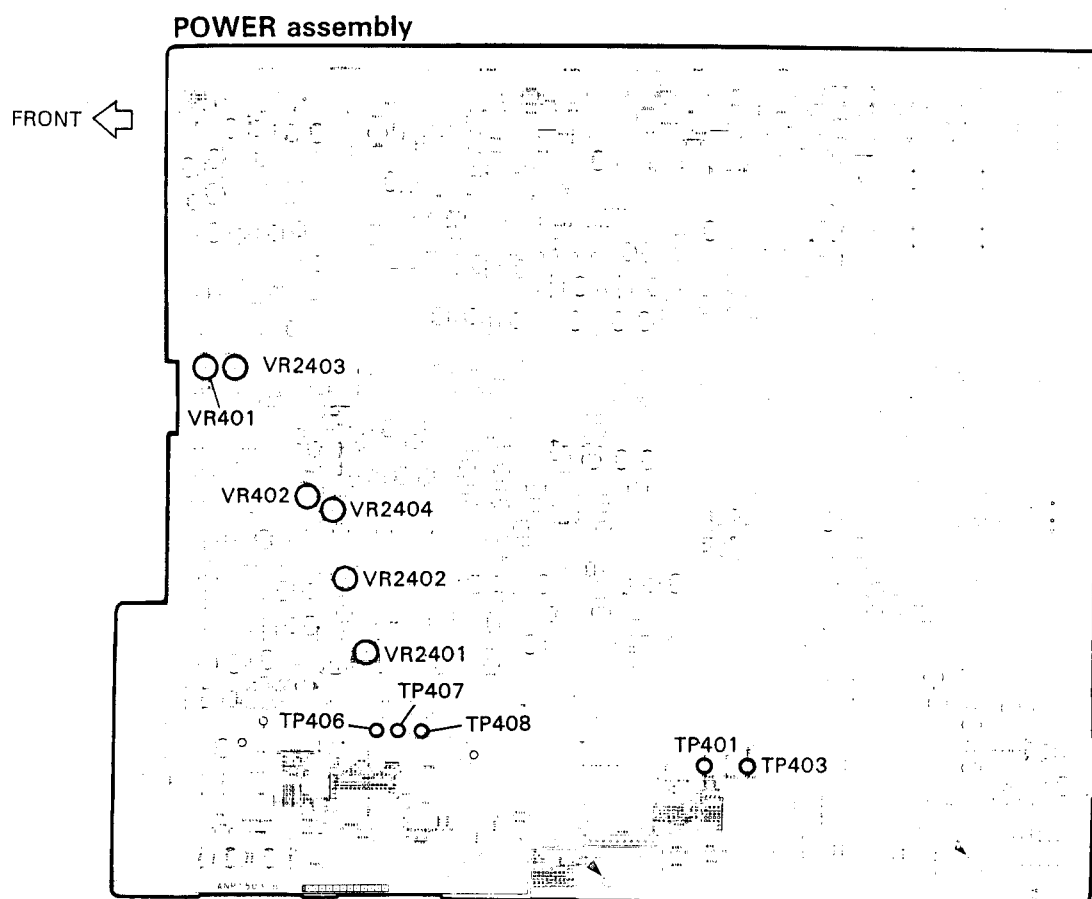


Fig. 4-6-2 Adjustment Points

5. IC INFORMATION

- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

■ PDG079A (IC51 : DISPLAY ASSEMBLY)

● System Control Micro-computer

● Pin Function

No.	Pin Name	I/O	Description
1	REC MUTE	O	REC MUTE ON/ $\overline{\text{OFF}}$
2	SURROUND	O	SURROUND ON/ $\overline{\text{OFF}}$
3	VOCAL CANCEL	O	NOT USED
4	STANDBY	O	POWER ON/ $\overline{\text{OFF}}$
5	S8	O	KEY SCAN OUTPUT (S8)
6	S9	O	KEY SCAN OUTPUT (S9)
7	S10	O	KEY SCAN OUTPUT (S10)
8	S11	O	KEY SCAN OUTPUT (S11)
9	S12	O	KEY SCAN OUTPUT (S12)
10	S13	O	KEY SCAN OUTPUT (S13)
11	S14	O	KEY SCAN OUTPUT (S14)
12	S15	O	KEY SCAN OUTPUT (S15)
13	S16/T15	O	SEGMENT OUTPUT (a)
14	S17/T14	O	SEGMENT OUTPUT (b)
15	S18/T13	O	SEGMENT OUTPUT (c)
16	S19/T12	O	SEGMENT OUTPUT (d)
17	S20/T11	O	SEGMENT OUTPUT (e)
18	S21/T10	O	SEGMENT OUTPUT (f)
19	S22/T9	O	SEGMENT OUTPUT (g)
20	S23/T8	O	SEGMENT OUTPUT (h)
21	T7	O	NOT USED (OPEN)
22	T6	O	NOT USED (OPEN)
23	T5	O	FL TIMING OUTPUT (1G)
24	T4	O	FL TIMING OUTPUT (2G)
25	T3	O	FL TIMING OUTPUT (3G)
26	T2	O	FL TIMING OUTPUT (4G)

No.	Pin Name	I/O	Description
27	T1	O	FL TIMING OUTPUT (5G)
28	T0	O	FL TIMING OUTPUT (6G)
29	9k/10k	I	Channel step frequency switching input (9/10 kHz)
30	XTAL	—	Connect a 4MHz ceramic oscillator.
31	EXTAL	—	
32	$\overline{\text{RST}}$	—	RESET INPUT
33	NC	—	NOT USED (OPEN)
34	VDD	—	+5V POWER SUPPLY INPUT
35	AD0/PI0	O	NOT USED (OPEN)
36	4052 B	O	4052 B OUTPUT
37	4052 A	O	4052 A OUTPUT
38	4052 INH	O	4052 INH OUTPUT
39	AD4/PB0	I	KEY SCAN PB0 INPUT
40	AD3/PB1	I	KEY SCAN PB1 INPUT
41	PLAY 1	I	DECK 1 PLAY ON/ $\overline{\text{OFF}}$
42	PLAY 2	I	DECK 2 PLAY ON/ $\overline{\text{OFF}}$
43	NC	—	NOT USED (OPEN)
44	LM7001 $\overline{\text{CLK}}$	O	SERIAL CLOCK OUTPUT
45	LM7001 DATA	O	SERIAL DATA OUTPUT
46	TUNED	I	TUNER TUNED SIGNAL INPUT
47	REC	I	DECK 2 REC ON/ $\overline{\text{OFF}}$
48	HIGH SPEED COPY	I	HIGH SPEED COPY KEY INPUT
49	TEST MODE	I	TEST MODE ON/ $\overline{\text{OFF}}$
50	DOLBY MUTE	O	PB MUTE ON/ $\overline{\text{OFF}}$

No.	Pin Name	I/O	Description
51	BIAS OSC	O	BIAS OSC ON/OFF
52	LM7001 CE	O	PLL CHIP ENABLE
53	DECK 4066 CTRL	O	SELECT PB1/PB2
54	DOLBY P/R	O	SELECT DOLBY PB/REC
55	HIGH SPEED COPY	O	HIGH SPEED CONTROL HIGH/NORMAL
56	SUPER BASS (IND)	O	S. BASS LED ON/OFF (RX-Z36 only)
57	SUPER BASS	O	S. BASS CONTROL ON/OFF (RX-Z36 only)
58	PE3	O	NOT USED (OPEN)
59	VR UP	O	VOLUME UP
60	VR DOWN	O	VOLUME DOWN
61	STOP	I	AC DETECTION INPUT
62	REMOTE	I	REMOTE CONTROL SIGNAL INPUT
63	HIGH SPEED COPY (IND)	O	HIGH SPEED COPY LED ON/OFF
64	VOCAL CANCEL (IND)	O	NOT USED
65	SURROUND (IND)	O	SURROUND LED ON/OFF
66	PHONO (IND)	O	FUNCTION PHONO LED ON/OFF
67	CD (IND)	O	FUNCTION CD LED ON/OFF
68	TUNER (IND)	O	FUNCTION TUNER LED ON/OFF
69	STANDBY (IND)	O	STANDBY LED ON/OFF

No.	Pin Name	I/O	Description
70	TAPE (IND)	O	FUNCTION TAPE LED ON/OFF
71	Vss	—	Connect to GND
72	TX	—	NOT USED (OPEN)
73	NC	—	NOT USED (OPEN)
74	TEX	—	Connect to Vdd or GND
75	VREF	—	Connect to Vdd
76	VFDP	—	—18V FDP LOAD POWER INPUT
77	MUTE	O	LINE MUTE ON/OFF
78	SPEANA MUTE	O	SPECTRUM ANALYZER MUTE
79	FL OFF	O	FL ON/OFF
80	MUTE RY	O	PROTECTION-RELAY ON/OFF

6. FOR RX – Z36/SLXJ, YPWXJ, RX – Z16/SDXJ, SLXJ AND YPWXJ TYPES

NOTES:

- Parts marked by “NSP” are generally unavailable because they are not in our Master Spare Parts List.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by “ $\odot$ ” are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560 Ω $\rightarrow$ 56 $\times$ 10¹ $\rightarrow$ 561 RD1/8PM $\begin{smallmatrix} 5 & 6 & 1 \end{smallmatrix}$ J

47k Ω $\rightarrow$ 47 $\times$ 10³ $\rightarrow$ 473 RD1/4PS $\begin{smallmatrix} 4 & 7 & 3 \end{smallmatrix}$ J

0.5 Ω $\rightarrow$ 0R5 RN2H $\begin{smallmatrix} 0 & 5 \end{smallmatrix}$ K

1 Ω $\rightarrow$ 010 RS1P $\begin{smallmatrix} 0 & 1 & 0 \end{smallmatrix}$ K

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω $\rightarrow$ 562 $\times$ 10¹ $\rightarrow$ 5621 RN1/4PC $\begin{smallmatrix} 5 & 6 & 2 & 1 \end{smallmatrix}$ F

6.1 CONTRAST OF MISCELLANEOUS PARTS

RX – Z36/SLXJ, YPWXJ, RX – Z16/SDXJ, SLXJ AND YPWXJ and RX – Z36/SDXJ have the same construction except for the following :

Mark	Symbol & Description	Part No.						Remarks
		RX – Z36/ SDXJ	RX – Z36/ SLXJ	RX – Z36/ YPWXJ	RX – Z16/ SDXJ	RX – Z16/ SLXJ	RX – Z16/ YPWXJ	
$\odot$	POWER assembly	AWZ4725	AWZ4726*1	AWZ4726*1	AWZ4722*2	AWZ4723*2	AWZ4723*2	
$\odot$	SWITCH assembly	AWZ3836	AWZ3836	AWZ3836	.....	.....	.....	
$\odot$	DOLBY assembly	AWZ4721	AWZ4721	AWZ4721	.....	.....	.....	
$\odot$	DISPLAY assembly	AWZ4940	AWZ4940	AWZ4940	AWZ4938*2	AWZ4938*2	AWZ4938*2	
Δ	S1 Voltage selector (AC110V/120 – 127V/220V/240V for SD type) (AC110V/120V/220V/240V for SL type)	AKX – 507	AKX – 507	.....	AKX – 507	AKX – 507	.....	
Δ	T1 Power transformer	ATS1389	ATS1389	ATS1398	ATS1389	ATS1389	ATS1398	
Δ	FU602 Fuse (T800mA/250V)	AEK – 507	AEK – 507	.....	AEK – 507	AEK – 507	.....	
Δ	AC power cord	ADG1051	ADG1049	ADG1123	ADG1051	ADG1049	ADG1123	
Δ	1P AC outlet	.....	AKP – 508	AKP1116	.....	AKP – 508	AKP1116	
NSP	P. bass button	AAD2125	AAD2125	AAD2125	.....	.....	.....	
	Copy button	AAD2128	AAD2128	AAD2128	.....	.....	.....	
	Dolby knob	AAE1142	AAE1142	AAE1142	.....	.....	.....	
	P. bass lens	AAK2243	AAK2243	AAK2243	.....	.....	.....	
	Indicator panel	AAK2421	AAK2421	AAK2421	AAK2420	AAK2420	AAK2420	
	Amp. panel	AAK2239	AAK2239	AAK2239	AAK2279	AAK2279	AAK2279	
	Rear panel	ANC2031	ANC2055	ANC2032	ANC2028	ANC2054	ANC2029	
	Front panel	AMB2108	AMB2108	AMB2108	AMB2106	AMB2106	AMB2106	
	Label	AAX1552	AAX1552	.....	AAX1552	AAX1552	.....	
	Packing case	AHD2466	AHD2466	AHD2466	AHD2464	AHD2464	AHD2464	
	Remote control unit (CU – RX011)	AXD1257	AXD1257	AXD1257	.....	.....	.....	
	Remote control unit (CU – RX015)	.....	.....	.....	AXD1327	AXD1327	AXD1327	
	Operating instructions (Spanish)	ARC1384	ARC1384	.....	ARC1384	ARC1384	.....	

Note :

*1 : Although AWZ4726 and AWZ4725 are different in part number, they have the same service parts.

*2 : Refer to “6.2 PCB PARTS LIST”.

POWER ASSEMBLY

AWZ4726 and AWZ4725 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ4725	AWZ4726	
△	AC SOCKET 1-P	AKP1060	.....	

6.2 PCB PARTS LIST

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
POWER ASSEMBLY (AWZ4722)				COILS			
SEMICONDUCTORS				CAPACITORS			
△	IC501, IC502	ICP-N38			L501, L502		ATH-133
	IC302	MC14052BCP			L410		LTA102J
	IC601, IC602	MC7812CT			L401, L402		LTA392J
	IC301, IC303-IC306, IC401-IC403	NJM4558DXP			L403, L404		LTA822J
	IC404	TC4066BP		CAPACITORS			
	Q601, Q606	2SA1048		△	C618, C619 (0.01/400)		ACG1003
	Q607, Q608	2SA1515			C603, C620 (0.01/150)		ACG1005
	Q501-Q504	2SA992			C604-C606 (2200/42)		ACH1109
	Q610	2SB560			C413, C414		CCCSL271K500
	Q611	2SB834			C415, C416		CCMSL100D50
	Q511, Q512	2SB950A			C301, C302, C513, C514		CCMSL101J50
	Q301-Q306, Q403, Q406, Q411,	2SC1740S			C521-C524		CCMSL470J50
	Q412, Q507, Q508, Q605, Q612, Q613,				C336, C507, C508, C519, C520		CCMSL680J50
	Q621, Q622				C338		CEAS010M50
	Q505, Q506, Q602	2SC1845			C330, C337, C401, C402, C601		CEAS100M50
	Q614	2SC3377			C614		CEAS101M50
	Q509, Q510	2SD1276A			C615		CEAS101M63
	Q405	2SD438			C607		CEAS102M35
	Q401, Q402	2SK373			C310, C313, C314, C331, C428		CEAS220M50
	Q307	RN2201			C630		CEAS221M10
	Q407	XDA124ES			C612		CEAS221M16
	Q408, Q609, Q615, Q616	XDC124ES			C501, C502		CEAS2R2M50
	D301-D303, D401-D407, D501,	HSS104-02			C405, C406, C419, C420		CEAS330M35
	D502, D603, D614-D618				C307, C308		CEAS3R3M50
	D604	D3SBA20 (A)			C311, C312, C423, C424, C450, C509,		CEAS470M16
	D601, D602	RD12ESB			C510, C608-C611, C613, C617		CEAS470M25
	D610	RD13ESB			C505, C506		CEAS472M25
	D613	RD20ESB			C621-C624		CEAS4R7M50
	D503, D504	RD4.3ESB			C319, C320, C425, C426, C433		CGMYB182M50
	D408, D409	RD5.1ESB			C315, C316		CKCYB222K50
	D609	RD5.6ESB			C503, C504		CKCYB562K50
	D605-D608, D611, D612	S5566			C305, C306		CKCYF103Z50
					C332, C333		CKCYF473Z50
					C317, C318, C334, C335, C340, C427		CKCYX104M16
					C309, C437-C440, C525		CKMYB102K50
					C431, C432, C511, C512		CKMYB122K50
					C435, C436		CKMYB152K50
					C303, C304		CKMYB471K50
					C429, C430		
SWITCH & RELAIES							
	S201	ASH1027					
△	RY602	ASR1027					
	RY601	ASR1035					

Mark	No.	Description	Parts No.
	C411, C412		CKMYB681K50
	C417, C418		CKMYB821K50
	C339		CQMA103J50
	C452		CQMA103K400
	C403, C404		CQMA273J50
	C409, C410		CQMA332J50
	C453		CQMA333K250
	C451		CQMA473J50
	C421, C422		CQMA682J50
	C407, C408		CQMA683J50
	C515–C518		CQMA823J50

RESISTORS

	VR301 (10k–B)		ACS1064
	VR401		VRTP6VS104
	VR402		VRTP6VS502
	R601, R602, R639, R640		RD1/4PM100J
	R507, R508		RD1/4PM123J
	R454		RD1/4PM180J
	R525, R526		RD1/4PM221J
	R505, R506, R515–R518		RD1/4PM222J
	R637		RD1/4PM3R9J
	R441		RD1/4PM471J
	R627		RD1/4PM682J
△	R531, R532		RD1/4PMF100J
△	R523, R524		RD1/4PMF470J
△	R535, R536		RD1/4PMFL100J
△	R442		RS1LMF102J
△	R573, R574		RS2LMF010J
△	R621, R638		RS2LMF101J
△	R603		RS2LMF102J
△	R626		RS2LMF181J
△	R625, R633		RS2LMF221J
△	R451		RS2LMF470J
△	R634		RS2LMF681J
△	R624		RS2LMF821J
△	R616		RS2LMFR22J
△	R527–R530		RS2LMFR68J
	Other Resistors		RD1/8PM□□□J

OTHERS

	4P PIN JACK		AKB1124
	DC JACK		AKN–203
	MINI JACK		AKN–207
	MIC JACK		AKN1017
	CN 2P SPEAKER TERMINAL		AKE1031
△	1P AC OUTLET		AKP1060
	CN107 10P JUMPER CONNECTOR		KPE10
	CN108 11P JUMPER CONNECTOR		KPE11
	CN111 15P JUMPER CONNECTOR		KPE15

Mark	No.	Description	Parts No.
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POWER ASSEMBLY (AWZ4723)
SEMICONDUCTORS

△	IC501, IC502		ICP–N38
	IC302		MC14052BCP
	IC601, IC602		MC7812CT
	IC301, IC303–IC306, IC401–IC403		NJM4558DXP
	IC404		TC4066BP
	Q601, Q606		2SA1048
	Q607, Q608		2SA1515
	Q501–Q504		2SA992
	Q610		2SB560
	Q611		2SB834
	Q511, Q512		2SB950A
	Q301–Q306, Q403, Q406, Q411, Q412, Q507, Q508, Q605, Q612, Q613, Q621, Q622		2SC1740S
	Q505, Q506, Q602		2SC1845
	Q614		2SC3377
	Q509, Q510		2SD1276A
	Q405		2SD438
	Q401, Q402		2SK373
	Q307		RN2201
	Q407		XDA124ES
	Q408, Q609, Q615, Q616		XDC124ES
	D301–D303, D401–D407, D501, D502, D603, D614–D618		HSS104–02
	D604		D3SBA20 (A)
	D601, D602		RD12ESB
	D610		RD13ESB
	D613		RD20ESB
	D503, D504		RD4.3ESB
	D408, D409		RD5.1ESB
	D609		RD5.6ESB
	D605–D608, D611, D612		S5566

SWITCH & RELAIES

	S201		ASH1027
△	RY602		ASR1027
	RY601		ASR1035

COILS & TRANSFORMERS

	L501, L502		ATH–133
	L410		LTA102J
	L401, L402		LTA392J
	L403, L404		LTA822J

CAPACITORS

△	C618, C619 (0.01/400)		ACG1003
	C603, C620 (0.01/150)		ACG1005
	C604–C606 (2200/42)		ACH1109
	C413, C414		CCCSL271K500
	C415, C416		CCMSL100D50
	C301, C302, C513, C514		CCMSL101J50
	C521–C524		CCMSL470J50

RX-Z36, RX-Z16

Mark	No.	Description	Parts No.
	C336, C507, C508, C519, C520 C338 C330, C337, C401, C402, C601	CCMSL680J50 CEAS010M50 CEAS100M50	
	C614 C615 C607 C310, C313, C314, C331, C428 C630	CEAS101M50 CEAS101M63 CEAS102M35 CEAS220M50 CEAS221M10	
	C612 C501, C502 C405, C406, C419, C420 C307, C308 C311, C312, C423, C424, C450, C509, C510, C608–C611, C613, C617	CEAS221M16 CEAS2R2M50 CEAS330M35 CEAS3R3M50 CEAS470M16	
	C505, C506 C621–C624 C319, C320, C425, C426, C433 C315, C316 C503, C504	CEAS470M25 CEAS472M25 CEAS4R7M50 CGMYB182M50 CKCYB222K50	
	C305, C306 C332, C333 C317, C318, C334, C335, C340, C427 C309, C437–C440, C525 C431, C432, C511, C512	CKCYB562K50 CKCYF103Z50 CKCYF473Z50 CKCYX104M16 CKMYB102K50	
	C435, C436 C303, C304 C429, C430 C411, C412 C417, C418	CKMYB122K50 CKMYB152K50 CKMYB471K50 CKMYB681K50 CKMYB821K50	
	C339 C452 C403, C404 C409, C410 C453	CQMA103J50 CQMA103K400 CQMA273J50 CQMA332J50 CQMA333K250	
	C451 C421, C422 C407, C408 C515–C518	CQMA473J50 CQMA682J50 CQMA683J50 CQMA823J50	
RESISTORS			
	VR301 (10k–B) VR401 VR402	ACS1064 VRTP6VS104 VRTP6VS502	
	R601, R602, R639, R640 R507, R508 R454 R525, R526 R505, R506, R515–R518	RD1/4PM100J RD1/4PM123J RD1/4PM180J RD1/4PM221J RD1/4PM222J	
	R637 R441 R627	RD1/4PM3R9J RD1/4PM471J RD1/4PM682J	
△	R531, R532	RD1/4PMF100J	
△	R523, R524	RD1/4PMF470J	
△	R535, R536	RD1/4PMFL100J	

Mark	No.	Description	Parts No.
△	R442		RS1LMF102J
△	R573, R574		RS2LMF010J
△	R621, R638		RS2LMF101J
△	R603		RS2LMF102J
△	R626		RS2LMF181J
△	R625, R633		RS2LMF221J
△	R451		RS2LMF470J
△	R634		RS2LMF681J
△	R624		RS2LMF821J
△	R616		RS2LMFR22J
△	R527–R530		RS2LMFR68J
	Other Resistors		RD1/8PM□□□J

OTHERS

4P PIN JACK	AKB1124
DC JACK	AKN–203
MINI JACK	AKN–207
MIC JACK	AKN1017
CN 2P SPEAKER TERMINAL	AKE1031

CN107 10P JUMPER CONNECTOR	KPE10
CN108 11P JUMPER CONNECTOR	KPE11
CN111 15P JUMPER CONNECTOR	KPE15

DISPLAY ASSEMBLY (AWZ4938)

SEMICONDUCTORS

IC105, IC106	BA3812L
IC103	BA6144
IC102	NJM4558DXP
IC51	PDG079A
Q53	2SB560
Q59, Q113–Q115	2SC1740S
Q54	2SC3377
Q52	2SD438
Q111	2SK246
Q51, Q55, Q58	RN2201
Q57	XDC124ES
Q56	XDC143ES
D51, D62, D66, D69, D101	HSS104–02
D106–D110	AEL1015
D55–D59, D67, D68	AEL1108
D60	AEL1130
D52	RD10ESB1
D54	RD11ESB2
D53	RD3.6ESB1
D71–D73	RD5.1ESB
D61	RD6.2ESB3

SWITCHES

S51, S53–S62, S64	ASG1034
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COIL

L51	LAU220K
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Mark	No.	Description	Parts No.
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CAPACITORS

C51	ACH1135
C119, C120	CCDSL101J50
C123, C124	CCMSL121J50
C135	CEAS100M50
C133	CEAS330M35
C53, C139, C140—C142	CEAS470M16
C50, C55, C56, C125, C126, C137, C138	CEAS4R7M50
C109, C110	CEASR15M50
C134	CEASR33M50
C117, C118	CEASR68M50
C105, C106	CGMYB182M50
C103, C104	CGMYX392M25
C115, C116	CGMYX682M25
C136	CKCYB102K50
C52, C143, C144	CKCYF473Z50
C54	CKCYX104M16
C107, C108	CKCYX153M16
C113, C114	CKCYX183M16
C121, C122	CKCYX393M16
C131, C132	CKCYX473M16
C101, C102	CKCYX683M16
C111, C112	CKMYB391K50
C127, C128	CKMYB471K50
C129	CKMYB681K50

RESISTORS

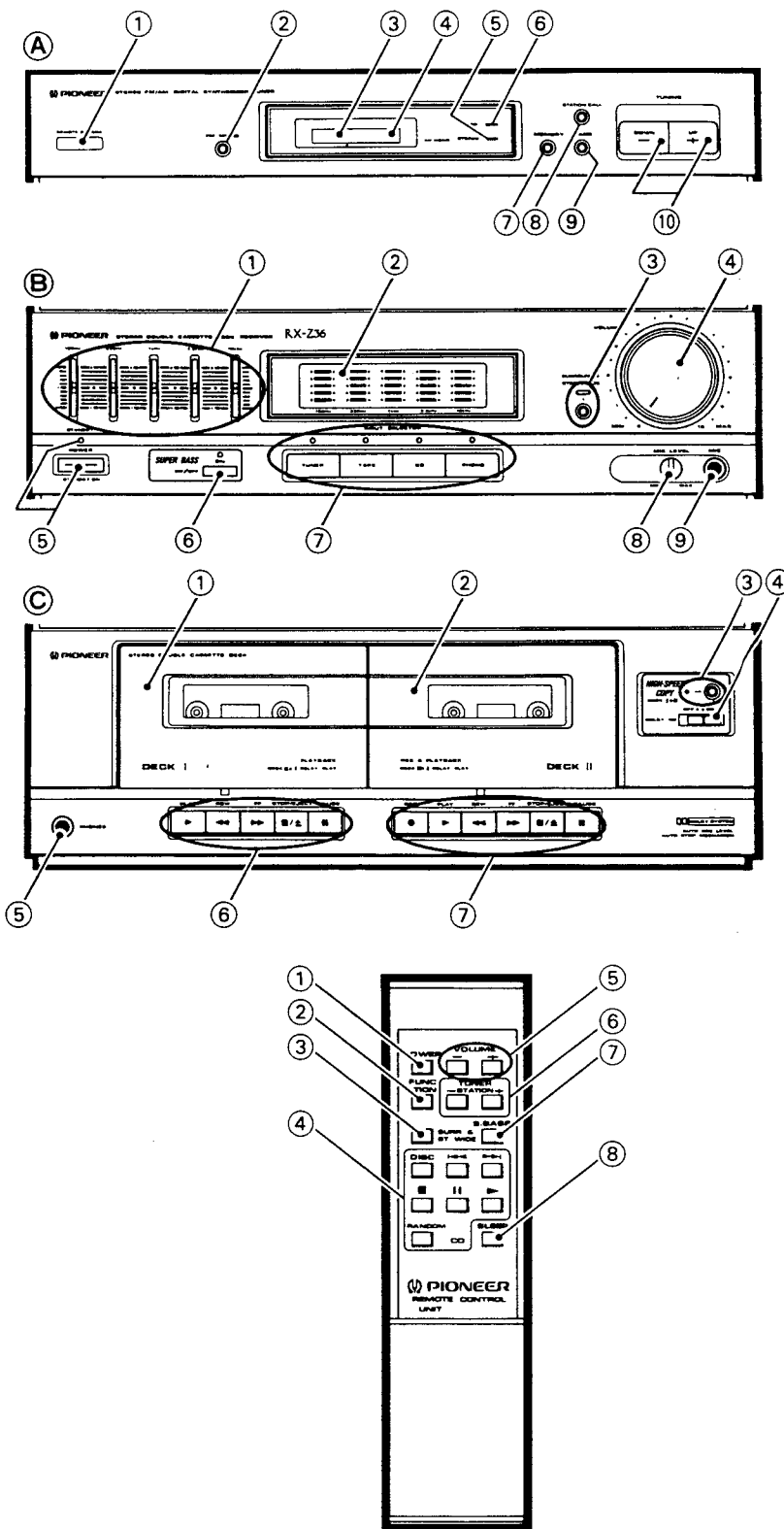
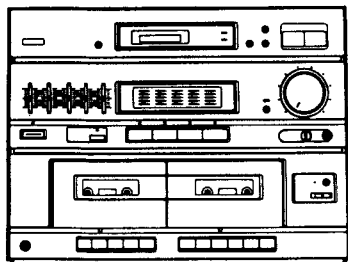
VR101—VR105 (100k—B5×2)	ACU1030
R165	RD1/4PM101J
R91	RD1/4PM220J
R51—R55	RD1/4PM270J
R2101, R2108, R2115, R2122, R2129	RD1/4PM390J
△ R79	RS2LMF390J
Other Resistors	RD1/8PM□□□J

OTHERS

REMOTE SENSOR UNIT	AXX1023
X51 (4.00MHz)	ASS1025
V51 FL TUBE	AAV—039

7. PANEL FACILITIES

RX-Z36



•The illustration of remote control unit shows the accessory with RX-Z36.

FRONT PANEL FACILITIES

Cassette deck receiver RX-Z16/RX-Z36

• Illustration shows model RX-Z36.

Ⓐ: [Tuner Section]

① Remote sensor window (REMOTE SENSOR)

② FM MONO button

Turn on when there is too much noise during reception of FM stereo broadcasts. The reproduced sound will become monaural but noise will be reduced.

③ Display section

Shows received broadcast frequency or station call no.

FM and MHz light: FM reception.

AM and kHz light: AM reception.

Channel display: station call no. display

④ FM MONO indicator

Lights when the FM MONO button is set to ON. When this indicator is lit, FM stereo broadcasts are reproduced monaurally.

⑤ STEREO indicator

Lights when an FM stereo broadcast is received (FM MONO button set to OFF).

⑥ TUNED indicator

Lights when a broadcast is received and tuned in well.

⑦ MEMORY button

Used for memorizing stations

⑧ STATION CALL button

Use to switch between frequency display and station no. display.

During frequency display, you can use the TUNING + and - buttons

Ⓘ to raise or lower the received frequency.

During station no. display, you can use the TUNING + and - buttons

Ⓘ to raise or lower the received station number.

⑨ BAND selector button

Each time this button is pressed, FM or AM reception is selected alternately.

⑩ TUNING +, - (UP, DOWN) buttons

Used for locating stations.

Use "-" button for lower, and "+" button for higher station no. or frequencies.

Ⓑ: [Amplifier and Graphic Equalizer Section]

① Graphic equalizer controls

② Spectrum analyzer display (RX-Z36) Level indicator (RX-Z16)

③ STEREO WIDE button (RX-Z16), SURROUND & STEREO WIDE button (RX-Z36)/indicator

By turning this switch ON, you can enjoy surround reproduction when rear speakers are used (RX-Z36 only).

By turning this switch ON, you can enjoy SURROUND & STEREO WIDE reproduction with greater left-right spread when rear speakers are not used.

The indicator lights when SURROUND & STEREO WIDE is on.

NOTE:

In the case of monaural source, SURROUND & STEREO WIDE effects cannot be obtained.

④ VOLUME control

⑤ POWER STANDBY/ON switch /STANDBY indicator

This is the switch for electric power.

ON : When set to the ON position, power is supplied and the unit becomes operational.

STANDBY : When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness.

The unit is in STANDBY when only the STANDBY indicator above the POWER switch is lit.

Press the SLEEP button on the remote control to operate the sleep timer, and the STANDBY indicator flashes to show that the sleep timer is operating.

⑥ SUPER BASS button/indicator (RX-Z36 only)

Set to ON to augment bass frequency response.

⑦ INPUT SELECTOR buttons

[TUNER]

Press to listen to radio broadcast.

[TAPE]

Press to listen to cassette tape.

[CD]

Press to listen to a CD player connected to the CD jacks.

[PHONO]

Press to play records on a turntable connected to the PHONO jacks.

⑧ MIC LEVEL control

Used for adjusting the volume of the microphone.

⑨ MIC (Microphone) jack

This is a standard jack for connecting a microphone.

©: [Cassette Deck Section]

- Use TYPE I (normal) tape.
- Tapes can be played back on Deck I; tapes can be played back and recorded on Deck II.

① Deck I cassette door

② Deck II cassette door

③ HI-SPEED COPY button/indicator (RX-Z36 only)

Used for high-speed tape copying. Copying at about twice normal tape speed.

④ DOLBY* NR switch (RX-Z36 only)

Set this switch to the ON position to activate the DOLBY NR system.

- Tapes recorded using Dolby noise reduction should always be played back with the noise reduction system on. Sound quality will be adversely affected if played back with the system off, or if tapes recorded using a different noise reduction system are played back with the Dolby NR system on.
- It is recommended that tapes recorded with Dolby B type NR be so marked on the label. This will help prevent incorrect setting of the noise reduction switch during playback.

*

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

⑤ PHONES (Headphones) jack

For stereo headphones.

NOTE:

There is no output from the speakers when headphones are plugged into PHONES jack.

⑥ Deck I operation buttons

- ▶ (PLAY)..... For playing back a tape.
- ➡ (F.F.)..... Fast forward.
- ⏮ (REW)..... Rewind.
- /▲ (STOP/EJECT) ... Press to stop playback. Pressing when the deck has stopped playing opens the cassette door.
- ⏸ (PAUSE)..... Temporarily stops tape travel. Cancels pause mode when pressed again.

⑦ Deck II operation buttons

- (REC)..... Press this button, and the ▶ button is simultaneously pressed for you to start recording.
- ▶ (PLAY)..... For playing back a tape
- ➡ (F.F.)..... Fast forward
- ⏮ (REW)..... Rewind
- /▲ (STOP/EJECT) ... Press to stop recording or playback, and to eject the cassette tape.
- ⏸ (PAUSE)..... Press to pause during playback or recording. To cancel the pause mode, press again.

Remote control unit

① POWER button

② FUNCTION button

Each time you press this button, the input selector changes.

③ SURR. & ST WIDE button (RX-Z36) STEREO WIDE button (RX-Z16)

Turns SURROUND & STEREO WIDE on and off.

④ CD operation buttons

Perform the connections so that the CD player is operated by the remote control unit.

- ▶..... Play
- ⏮, ⏭..... Track search
- Stop
- ⏸..... Pause
- DISC..... Use to select discs on the twin-tray CD player (PD-Z76T) and the Multi-play CD player (PD-Z86M).
- RANDOM... Press when you want to enjoy random play on the CD player.

⑤ VOLUME + (UP) and — (DOWN) buttons

When pressed, VOLUME on the receiver is actually moved by a motor.

⑥ TUNER STATION + and — buttons

- Before operation, memorize broadcast stations.
- Refer to MEMORIZING STATIONS and RECEPTION USING PRESET TUNING on page 15.
- +..... Stations change in order in the upward direction
- Stations change in order in the downward direction.

⑦ S.BASS button (RX-Z36 only)

Switches S.BASS (SUPER BASS) ON and OFF.

⑧ SLEEP button

Sets the sleep timer. Press this button to set the 60 minute sleep timer.

